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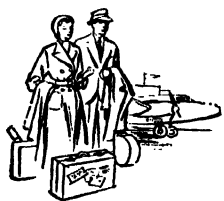
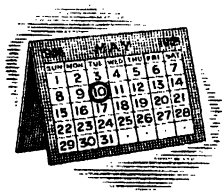
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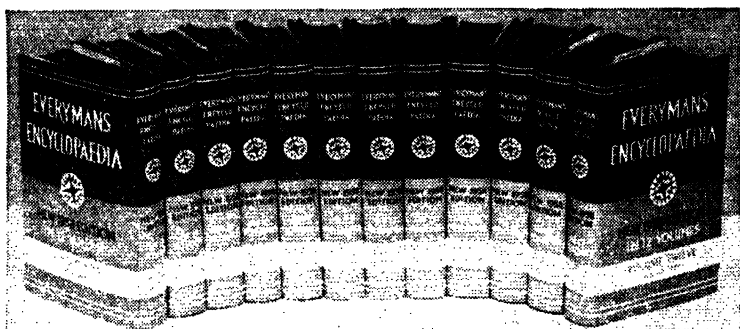
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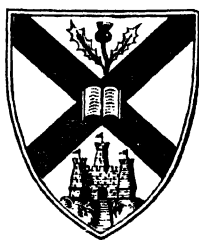
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ACADEMIC CALENDAR

1959—September

1	Tu	Last day for lodging theses for Ph.D. degree (for October graduation)
2	W	
3	Th	
4	F	
5	Sa	
6	S	Entries close for Arts and Science scholarships (autumn entry) and for Divinity entrance bursaries.
7	M	
8	Tu	
9	W	
10	Th	
11	F	
12	Sa	
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	Sa	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	
26	Sa	
27	S	
28	M	
29	Tu	
30	W	Last day for paying examination fees for Ph.D. theses and M.Sc. dissertations (for December graduation).

Academic Calendar

1959—October

1	Th	Annus Academicus begins. Last day for lodging theses for M.D., M.D.S., Ch.M., D.V.M. & S. and D.Sc. (for December graduation).
2	F	
3	Sa	
4	S	
5	M	
6	Tu	Entries close for Ch.M. (clinical, oral, and practical) examinations.
7	W	
8	Th	Classes in Faculty of Divinity open.
9	F	Last day for lodging applications for grants from Moray Fund (for November meeting of Senatus Academicus).
10	Sa	
11	S	
12	M	Entries for M.B., Ch.B. (Final Professional, Medicine, Surgery, and Obstetrics), B.D.S. (Final Professional, Part III) examinations. Entries for B.V.M. & S. (Final Professional Part II) examinations.
13	Tu	Classes in Faculties of Arts, Law, Medicine, Music and Science open.
14	W	
15	Th	Last day for lodging dissertations for M.Sc. (for December graduation).
16	F	
17	Sa	
18	S	
19	M	Meeting of Works Committee. Meeting of Finance Committee.
20	Tu	
21	W	Meeting of Senatus Academicus :— Standing Committees and Boards of Studies to be appointed.
22	Th	
23	F	
24	Sa	Graduation Ceremonial.
25	S	
26	M	Meeting of University Court.
27	Tu	
28	W	
29	Th	
30	F	Meeting of General Council.
31	S	

Academic Calendar

1959—November

1	S	Last day for lodging theses for Ph.D. (for December graduation).
2	M	
3	Tu	
4	W	
5	Th	
6	F	
7	Sa	
8	S	Entries for D.T.M. & H., Pt. I examinations. Entries for B.D.S. (Third Professional, Part 1) examination. Martinmas.
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	Sa	
15	S	Meeting of Works Committee. Entries for B.D.S. (Fourth Professional Part I) examination Meeting of Senatus Academicus :— (1) Election of an assessor on University Court. (2) First half-yearly report of Moray Fund Committee.
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	Sa	
22	S	Meeting of University Court.
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	Sa	
29	S	
30	M	

Academic Calendar

1959—December

1	Tu	
2	W	Entries for Social Study examination.
3	Th	
4	F	
5	Sa	
6	S	
7	M	Meeting of Works Committee.
8	Tu	
9	W	Meeting of Senatus Academicus :— (1) Election of Deans of Faculties. (2) Arrangements for next academical year.
10	Th	
11	F	
12	Sa	
13	S	
14	M	Meeting of University Court.
15	Tu	
16	W	
17	Th	
18	F	Graduation Ceremonial. Classes in all Faculties close.
19	Sa	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	Christmas Day.
26	Sa	
27	S	
28	M	
29	Tu	
30	W	
31	Th	

Academic Calendar

1960—January

1	F	
2	Sa	
3	S	
4	M	Last day for lodging theses for D.Litt. (for summer graduation).
5	Tu	
6	W	
7	Th	
8	F	
9	Sa	
10	S	
11	M	
12	Tu	Classes in all Faculties open.
13	W	
14	Th	
15	F	
16	Sa	
17	S	
18	M	Meeting of Works Committee. Meeting of Finance Committee.
19	Tu	
20	W	Meeting of Senatus Academicus :— Reports of Boards of Studies.
21	Th	
22	F	
23	Sa	
24	S	
25	M	Meeting of University Court. Entries open for Preliminary examinations.
26	Tu	
27	W	
28	Th	
29	Fr	
30	Sa	
31	S	

Academic Calendar

1960—February

1	M	Entries close for Preliminary examinations.
2	Tu	Candlemas
3	W	
4	Th	
5	F	
6	Sa	
7	S	
8	M	
9	Tu	Last day for lodging applications for grants from Moray Fund (for March meeting of the Senatus Academicus).
10	W	
11	Th	
12	F	
13	Sa	
14	S	
15	M	Meeting of Works Committee. Entries for B.D.S. (Third Professional Parts I and II, Final Professional Parts I and II) examinations.
16	Tu	Meal Monday. Holiday in Faculty of Arts. Entries for M.B., Ch.B., B.D.S. and B.V.M. & S. (First Professional) examinations.
17	W	Meeting of Senatus Academicus :— (1) Reports of the D.D. and L.L.D. Committee. (2) Annual Report on University Library. Entries for D.M.R.D., D.M.R.T., Dipl.Psych., D.T.M. & H. Parts I and II, D.P.H., and D.T.V.M. Part I and B.V.M. & S. (Third Professional Part II and Final Professional Parts I and II) examinations.
18	Th	Entries for M.B., Ch.B. (Final Professional, Psychiatry) examinations.
19	F	Entries for M.A. and B.Com. examinations.
20	Sa	
21	S	
22	M	Meeting of University Court.
23	Tu	Entries for B.Sc. (in Pure Science, Agriculture, and Forestry) examinations.
24	W	Entries for B.Sc. (in Engineering and Mining) examinations.
25	Th	Entries for M.B., Ch.B. and B.D.S. and B.V.M. & S. (Second Professional) examinations.
26	F	Entries for B.Mus (Acoustics) examination.
27	Sa	
28	S	
29	M	

Academic Calenda

1960—March

1	Tu	Last day for lodging applications for summer admission as Ph.D. students.
2	W	Entries close for Arts and Science scholarships (spring entry).
3	Th	
4	F	
5	Sa	
6	S	
7	M	Preliminary examinations begin.
8	Tu	
9	W	
10	Th	
11	F	Entries for Diploma in Actuarial Mathematics examinations.
12	Sa	
13	S	
14	M	Meeting of Works Committee.
15	Tu	
16	W	Meeting of Senatus Academicus :— (1) Reports of D.D. and LL.D. Committees moved. (2) Second half-yearly report of Moray Fund Committee.
17	Th	
18	F	Classes in all Faculties close.
19	Sa	
20	S	
21	M	Meeting of University Court.
22	Tu	
23	W	
24	Th	Preliminary examinations close.
25	F	
26	Sa	
27	S	
28	M	Entries open for Entrance Bursary examination.
29	Tu	
30	W	
31	Th	

Academic Calendar

1960—April

1	F	Last day for lodging theses for M.D., M.D.S., D.V.M. & S., and Ch.M. (for summer graduation).
2	Sa	
3	S	Entries close for Entrance Bursary Examination.
4	M	
5	Tu	
6	W	
7	Th	
8	F	
9	Sa	
10	S	Last day for paying examination fees for Ph.D. theses and M.Sc. dissertations (for summer graduation).
11	M	
12	Tu	Classes in Faculty of Law open.
13	W	Last day for lodging theses for D.Sc. (for summer graduation). Good Friday.
14	Th	
15	F	
16	Sa	
17	S	Easter Day.
18	M	Meeting of University Court.
19	Tu	Classes in Faculties of Arts, Music, Science, Divinity and Medicine open.
20	W	Entries for B.Sc. (in Mining) examination.
21	Th	
22	F	
23	Sa	
24	S	Entries for B.D. examinations.
25	M	
26	Tu	
27	W	
28	Th	
29	F	Last day for lodging dissertations for M.Sc. (for summer graduation).
30	Sa	

Academic Calendar

1960—May

2	M	Entries for M.B., Ch.B. Final Professional (Medicine, Surgery and Obstetrics) and B.D.S. Final Professional examinations. Entries close for Law and Music scholarships. Entries close for Ch.M. (clinical, oral and practical) examinations.
4	W	Meeting of General Council.
5	Th	Entries for M.A. examinations (Final and Intermediate Honours courses).
7	Sa	Entries for B.Ed. and Diploma in Education examinations.
9	M	Entries for D.M.R.D., D.M.R.T., D.T.M. & H. (Part II), D.T.V.M. (Parts I and II), and D.V.S.M. examinations. Entries for B.Mus. and D.Mus. examinations.
11	W	Meeting of Senatus Academicus.
12	Th	Entries close for examinations for M.A. (Ordinary courses) and B.Com. degree and for all diplomas (except Actuarial Mathematics and Education) and certificates in the Faculty of Arts.
15	S	Whitsunday Term.
16	M	Meeting of Works Committee. Meeting of Finance Committee. Entries close for Arts and Science scholarships (summer entry). Last day for lodging theses for Ph.D. (for summer graduation).
17	Tu	Entries close for B.Sc. (Pure Science) examinations.
18	W	Entries for B.Sc. examinations in Engineering (Second and Final); and in Mining (Second, Third and Final).
19	Th	Entries for B.Sc. examinations in Forestry (Second and Final); and in Chemical Technology and Agriculture (Second, Third and Final).
20	F	Classes in Faculty of Divinity (excluding Arts classes in Arabic and Hebrew) close. Entries for First Examinations in Applied Science and diplomas in Science.
23	M	Victoria Day. Holiday in all Faculties. Meeting of University Court.
24	Tu	Opening of General Assembly. Holiday in all Faculties.
25	W	Entries for M.B., Ch.B. (Third Professional and Final Professional in Forensic Medicine and Public Health) and B.D.S. (Third Professional Part III and Fourth Professional Parts I and III) examinations; and B.V.M. & S. (Third Professional Parts I and II, and Final Professional Parts I, II and III) examinations.
26	Th	Entries for M.B., Ch.B., B.D.S. and B.V.M. & S. (First Professional) examinations.
27	F	Entries for B.D.S. and B.V.M. & S. (Second Professional) examinations.

Academic Calendar

1960—June

1	W	Last day for lodging theses for D.Litt. (for December graduation).
2	Th	
3	F	
4	Sa	
5	S	Meeting of Senatus Academicus.
6	M	
7	Tu	
8	W	
9	Th	Classes in Faculty of Law close.
10	F	
11	Sa	
12	S	Meeting of Works Committee.
13	M	
14	Tu	
15	W	Last day for paying examination fees for Ph.D. theses and M.Sc. dissertations (for October graduation).
16	Th	Classes in Faculties of Arts (including Arts classes in Arabic and Hebrew), Music, Science, close.
17	F	
18	Sa	
19	S	Meeting of University Court.
20	M	
21	Tu	
22	W	
23	Th	Classes in Faculty of Medicine close.
24	F	
25	Sa	
		Last day for returning books before annual inspection of Library. Library closed for lending till 4th July.
26	S	Entries open for Preliminary examinations.
27	M	
28	Tu	
29	W	
30	Th	

Academic Calendar

1960—July

4	M	Library reopens after inspection.
5	Tu	Entries close for Preliminary examinations.
7	Th	Graduation Ceremonial.
8	F	Commemoration Service. Graduation Ceremonial.
11	M	Meeting of Works Committee.
13	W	Meeting of Senatus Academicus.
15	F	Entries for B.D. examinations. Last day for presenting M.Sc. dissertations (for October graduations).
18	M	Meeting of University Court.
20	W	Graduation Ceremonial.

1960—August

8	M	Preliminary examinations begin. Entries for M.A. and B.Com. examinations.
16	Tu	Entries for D.P.H., D.M.R.D., Dip.Psych., D.M.R.T., D.V.S.M., and D.T.V.M. Part II examinations. Entries for M.B., Ch.B. (First Professional), B.D.S. (First Professional) and B.V.M. & S. (First Professional) examinations.
20	Sa	Preliminary examinations end.
23	Tu	Entries for B.L. and I.L.B., and Dipl.Admin.Law examinations.
26	F	B.D.S. (Fourth Professional Parts II and III) and B.V.M. & S. (Final Professional Part I).
29	M	Entries for M.B., Ch.B., and B.D.S. (Second Professional) examinations.
30	Tu	Entries for M.B., Ch.B. (Third Professional), B.D.S. (Third Professional Parts II and III) and B.V.M. & S. (Third Professional Parts I and II) examinations. Entries for M.B., Ch.B. Final Professional (Forensic Medicine, Psychological Medicine and Public Health) examinations.
31	W	

Academic Calendar

1960—September

1	Th	Last day for lodging theses for Ph.D. (for October graduation). Entries for B.Mus. and D.Mus. examinations.
2	F	
3	Sa	
4	S	Entries close for Arts and Science scholarships (autumn, entry) and for Divinity entrance bursaries.
5	M	
6	Tu	
7	W	
8	Th	
9	F	
10	Sa	
11	S	
12	M	
13	Tu	
14	W	Annus Academicus ends.
15	Th	
16	F	
17	Sa	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	Sa	
25	S	
26	M	
27	Tu	
28	W	
29	Tu	
30	F	

CALENDAR FOR 1960-61

October 1960					November 1960					December 1960				
S	2	9	16	23 30	S	6	13	20	27	S	4	11	18	25
M	3	10	17	24 31	M	7	14	21	28	M	5	12	19	26
Tu	4	11	18	25	Tu	1 8	15	22	29	Tu	6	13	20	27
W	5	12	19	26	W	2 9	16	23	30	W	7	14	21	28
Th	6	13	20	27	Th	3 10	17	24		Th	1 8	15	22	29
Fr	7	14	21	28	Fr	4 11 ¹	18	25		Fr	2 9	16	23	30
Sa	1 8	15	22	29	Sa	5 12	19	26		Sa	3 10	17	24	31
January 1961					February 1961					March 1961				
S	1 8	15	22	29	S	5	12	19	26	S	5	12	19	26
M	2 9	16	23	30	M	6	13 ³	20	27	M	6	13	20	27
Tu	3 10	17	24	31	Tu	7	14	21	28	Tu	7	14	21	28
W	4 11	18	25		W	1 8	15	22		W	1 8	15	22	29
Th	5 12	19	26		Th	2 ² 9	16	23		Th	2 9	16	23	30
Fr	6 13	20	27		Fr	3 10	17	24		Fr	3 10	17	24	31 ⁴
Sa	7 14	21	28		Sa	4 11	18	25		Sa	4 11	18	25	
April 1961					May 1961					June 1961				
S	2 ⁵ 9	16	23	30	S	7	14	21	28	S	4	11	18	25
M	3 10	17	24		M	1 8	15 ⁶	22	29	M	5	12	19	26
Tu	4 11	18	25		Tu	2 9	16	23	30	Tu	6	13	20	27
W	5 12	19	26		W	3 10	17	24	31	W	7	14	21	28
Th	6 13	20	27		Th	4 11	18	25		Th	1 8	15	22	29
Fr	7 14	21	28		Fr	5 12	19	26		Fr	2 9	16	23	30
Sa	1 8	15	22	29	Sa	6 13	20	27		Sa	3 10	17	24	
July 1961					August 1961					September 1961				
S	2 9	16	23	30	S	6	13	20	27	S	3	10	17	24
M	3 10	17	24	31	M	7	14	21	28	M	4	11	18	25
Tu	4 11	18	25		Tu	1 8	15	22	29	Tu	5	12	19	26
W	5 12	19	26		W	2 9	16	23	30	W	6	13	20	27
Th	6 13	20	27		Th	3 10	17	24	31	Th	7	14	21	28
Fr	7 14	21	28		Fr	4 11	18	25		Fr	1 8	15	22	29
Sa	1 8	15	22	29	Sa	5 12	19	26		Sa	2 9	16	23	30

¹ Martinmas Term.

² Meal Monday; Holiday in Faculty of Arts.

³ Easter Day.

⁴ Candlemas.

⁵ Good Friday.

⁶ Whitsunday Term.

THE UNIVERSITY OF EDINBURGH

Date of
Institution

Appointed.

Chancellor

1859 HIS ROYAL HIGHNESS THE PRINCE PHILIP, DUKE OF EDINBURGH,
K.G., K.T., LL.D., F.R.S. 1952

Vice-Chancellor

1859 SIR EDWARD VICTOR APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D.,
LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S. 1948

Rector

1859 JAMES ROBERTSON JUSTICE, Dr.Phil. 1957

Principal

1882 SIR EDWARD VICTOR APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D.,
LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S. 1948

Secretary

1918 CHARLES H. STEWART, J.P., M.A., LL.B., C.A. 1948

Deputy Secretary— * * *

Assistant Secretaries—L. D. MACMILLAN, B.L., A.R.I.C.S.
J. MACPHERSON, D.F.C., M.A., LL.B.
R. MAXWELL YOUNG, T.D., B.L., S.S.C.
P. MCINTYRE, M.A.

Accountant—R. O. CURLE, C.A.

Assistant Accountant—D. I. CAMERON, B.L., C.A.

Law Agent—DAVID BOGLE, M.A., LL.B., W.S., 32 Charlotte Square.

Auditor—Sir JOHN L. SOMERVILLE, C.A., F.R.S.E., 37 Melville Street.

University Court

President—THE RECTOR, *Ex officio*.

THE PRINCIPAL	<i>Ex officio</i> .		
THE RIGHT HON. THE LORD PROVOST of Edinburgh	<i>Ex officio</i> .		
T. J. CARLYLE GIFFORD, M.A., LL.B., LL.D., W.S.	} Assessor nominated by Chancellor		1959
HON. LORD CAMERON, D.S.C., Q.C., M.A., LL.B., LL.D., F.R.S.E., D.L.			
TREASURER D. M. WEATHERSTONE, M.C., T.D.	Do.	do.	Rector 1957
PROFESSOR R. N. ARNOLD, D.Sc., D.Eng., Ph.D., M.I.Mech.E., A.M.I.C.E.	Do.	do.	Town Council 1958
PROFESSOR D. TALBOT RICE, M.B.E., M.A., B.Sc., D.Litt.	Do.	Elected by Senatus	1955
PROFESSOR J. H. F. BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H. F.R.C.P.E., F.R.S.E.	Do.	do.	1956
PROFESSOR J. D. B. MITCHELL, LL.B., PH.D.	Do.	do.	1957
PROFESSOR ÉMERITUS R. W. JOHNSTONE, C.B.E., M.A., M.D., LL.D., F.R.C.S.E., F.R.C.O.G.	Do.	do.	1958
K. PATERSON BROWN, M.B., Ch.B., F.R.C.S.E.	Do.	do.	General Council 1955
A. F. GILES, M.A., LL.D.	Do.	do.	1955
SIR HUGH WATSON, M.A., LL.B., Deputy Keeper of Her Majesty's Signet	Do.	do.	1957
	Do.	do.	1959

Curators of Patronage

SIR EDWARD APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D., LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S. Elected by University Court . 1958

PROFESSOR J. DREVER, M.A., F.R.S.E. 1958

PROFESSOR G. L. MONTGOMERY, T.D. Ph.D., M.D., F.R.F.P.S.G. Do. do. . 1956

University of Edinburgh

THE RIGHT HON. SIR IAN JOHNSON-GILBERT, C.B.E., LL.D., Lord Provost	Elected by Town Council	1957
COUNCILLOR L. S. MILLER, M.A., LL.B.	Do. do.	1956
COUNCILLOR MRS BARBARA WOODBURN, J.P.	Do. do.	1956
COUNCILLOR NORMAN SMITH	Do. do.	1958

Secretary—G. I. L. SOMERVILLE, B.A., LL.B., W.S., N.P., 4 Albyn Place.

General Council

Officials

President	The Chancellor of the University.
Vice-Presidents	The Rector, The Principal, The Chancellor's Assessor, The Rector's Assessor.
Convener of Business Committee	H. J. L. ROBBIE, M.A., Ph.D.
Secretary	* * *
Registrar	CHARLES H. STEWART, J.P., M.A., LL.B., C.A.

Senatus Academicus

President—THE PRINCIPAL.

Professor JOHN HENDERSON SEAFORTH BURLEIGH, M.A., B.D., B.Litt., D.D.
Professor DAVID TALBOT RICE, M.B.E., M.A., B.Sc., D.Litt.
Professor NORMAN WALKER PORTEOUS, M.A., D.D.
Professor DERRICK MELVILLE DUNLOP, B.A., M.D., F.R.C.P.E., F.R.C.P.
Professor SIDNEY THOMAS MAYOW NEWMAN, M.A., D.Mus., F.R.C.O., F.T.C.L.
Professor STEPHEN JOHN WATSON, C.B.E., M.Sc., D.Sc., F.R.I.C., F.R.S.E.,
Professor WILLIAM CROFT DICKINSON, M.C., M.A., D.Lit., LL.D.
Professor JAMES DREVER, M.A., F.R.S.E.
Professor NORMAN FEATHER, B.A., B.Sc., Ph.D., F.R.S.
Professor WILLIAM STRANG TINDAL, O.B.E., M.A., D.D.
Professor ARCHIBALD HUNTER CAMPBELL, B.C.L., M.A., LL.M.
Professor GEORGE HECTOR PERCIVAL, M.D., Ph.D., D.P.H., F.R.C.P.E.
Professor ALEXANDER CRAIG AITKEN, M.A., D.Sc., LL.D., F.R.S.
Professor ROBERT JAMES KELLAR, M.B.E., M.B., Ch.B., F.R.C.P., F.R.C.S., F.R.C.O.G.
Professor STUART PIGGOTT, B.Litt., D.Lit. Hum., F.B.A.
Professor RICHARD WHITE BERNARD ELLIS, O.B.E., M.A., M.D., F.R.C.P.E., F.R.C.P.
Professor RONALD NATHAN ARNOLD, D.Sc., D.Eng., Ph.D., M.I.Mech.E., A.M.I.C.E.
Professor CONRAD HAL WADDINGTON, C.B.E., M.A., Sc.D., D.Sc., F.R.S.
Professor JAMES STUART STEWART, M.A., B.D., D.D., Chaplain to H.M. the Queen in Scotland.
Professor GEORGE ALLISON MONTGOMERY, Q.C., M.A., LL.B.
Professor NORMAN McOMISH DOTT, C.B.E., M.B., Ch.B., F.R.C.S.E., F.R.S.E.
Professor ROBERT McADAM, B.Sc., Ph.D., M.I.Min.E., F.R.S.E.
Professor EDMUND LANGLEY HIRST, C.B.E., M.A., D.Sc., LL.D., F.R.S.
Professor ROBERT McWHIRTER, M.B., Ch.B., F.R.C.S., F.F.R., D.M.R.E.
Professor ANGUS McINTOSH, M.A., A.M.
Professor DAVID WHITTERIDGE, B.Sc., D.M., F.R.S.
Professor THOMAS FORSYTH TORRANCE, M.B.E., M.A., B.D., D.Theol., D.D.
Professor KENNETH HURLSTONE JACKSON, M.A., Litt.D., D.Litt.Celt., F.B.A.
Professor ARTHUR JAMES BEATTIE, M.A., F.R.S.E.
Professor MARK LOUDEN ANDERSON, M.C., M.A., D.Sc., F.R.S.E.
Professor EUDO COLECESTRA MASON, M.A., Dr.Phil.
Professor FREDERICK CHARLES GREEN, M.C., M.A., Dr.Phil., Dr.Univ. Par., Dr. Univ. Rennes, Dr. Univ. Grenoble.
Professor JOHN GUSTAVE PILLEY, M.A.
Professor JOHN WENMAN CROFTON, M.A., M.D., F.R.C.P., F.R.C.P.E.
Professor MICHAEL MEREDITH SWANN, M.A., Ph.D.
Professor ROBERT HOGG MATTHEW, C.B.E., M.A., A.R.S.A., F.R.I.B.A., F.R.I.A.S.
Professor DOUGLAS JAMES ACWORTH KERR, M.D., D.P.H., F.R.C.P.E., F.R.S.E.
Professor NICHOLAS KEMMER, M.A., Dr.Phil., F.R.S.
Professor NORMAN CHARLES HUNT, B.Com., Ph.D.
Professor GEORGE FREDERICK BODDIE, B.Sc., M.R.C.V.S., F.R.S.E.
Professor ALEXANDER ROBERTSON, M.A., B.Sc., Ph.D., M.R.C.V.S., F.R.I.C., F.R.S.E.
Professor DENYS HAY, M.A.

University of Edinburgh

- Professor GEORGE JOHN ROMANES, B.A., Ph.D., M.B., Ch.B., F.R.C.S.E., F.R.S.E.
 Professor JOHN DAVID BAWDEN MITCHELL, LL.B., Ph.D.
 Professor GEORGE LIGHTBODY MONTGOMERY, T.D., Ph.D., M.D., F.R.F.P.S.G.
 Professor DAVID BAYNE HORN, M.A., D.Litt.
 Professor JAMES WREFFORD WATSON, M.A., Ph.D., F.R.S.C.
 Professor GEORGE IAN SCOTT, M.A., MB., Ch.B., F.R.C.S., F.R.S.E.
 Professor ALEXANDER KENNEDY, M.D., F.R.C.P., F.R.C.P.E., F.B.Ps.S., D.P.M.
 Professor GEORGE LOVAT FRASER HENRY, B.L., W.S., N.P.
 Professor DUNCAN McMILLAN, B.A., Ph.D., Dip. de l'E.H.E.
 Professor JAMES BARR, M.A., B.D.
 Professor JOHN HOWIE FLINT BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H., F.R.C.P.E., F.R.S.E.
 Professor KENNETH GEORGE DENBIGH, M.A., D.Sc., F.R.I.C., M.I.Chem.E., F.R.S.E.
 Professor JOHN MCINTYRE, M.A., B.D., D.Litt.
 Professor ALAN TURNER PEACOCK, D.S.C., M.A.
 Professor FREDERICK HENRY STEWART, B.Sc., Ph.D., F.R.S.E.
 Professor MICHAEL FRANCIS ADDISON WOODRUFF, B.E.E., M.D., M.S., F.R.C.S., F.R.A.C.S.
 F.R.C.S.E.
 Professor JOHN BRUCE, C.B.E., M.B., Ch.B., P.R.C.S.E.
 Professor HERMANN ALEXANDER BRUCK, D.Phil., Ph.D., Astronomer Royal.
 Professor DAVID STEEL ANDERSON, M.A., C.A.
 Professor ROBERT CRUICKSHANK, M.D., D.P.H., F.R.C.P.
 Professor JOHN IVOR PULSFORD JAMES, M.B., M.S., F.R.C.S.
 Professor THOMAS BROWN SMITH, Q.C., D.C.L., B.C.L., M.A., F.B.A.
 Professor WALTER LAING MACDONALD PERRY, O.B.E., M.D. D.Sc.
 Professor JOHN BOYES, F.R.C.S.E., F.D.S., R.C.S. (Eng. and Ed.)
 Professor ALEXANDER JOHN YOUNGSON, M.A., D.Litt.
 Professor ROBERT BROWN, B.Sc., Ph.D., F.R.S.
 Professor ELIZABETH WISKEMANN, M.A., M.Litt.
 Professor KENNETH WILLIAM DONALD, D.S.C., M.A., M.D., D.Sc., F.R.C.P.
 Professor JAMES SPREULL ANDREW SPREULL, Ph.D., M.R.C.V.S.
 Professor REGINALD BRETTAUER FISHER, M.A., B.Sc., D.Phil.
 Professor IAN MCINTYRE CAMPBELL, M.A.
 Professor WINSTON HERBERT FREDERICK BARNES, M.A.
 Professor JOHN EVERETT BUTT, M.A., B.Litt.
 Professor TOM LEADBETTER COTTRELL, B.Sc., D.Sc.
 A. NELSON, Ph.D., D.Sc., N.D.A., F.R.S.E.
 C. P. STEWART, Ph.D., D.Sc.
 A. NISBET, M.A., F.R.S.E.
 D. WARD, M.A.
 M. DOMINICA LEGGE, B.Litt., M.A.
 Rev. R. A. S. BARBOUR, M.C., M.A., B.D., S.T.M.
 W. F. DICKSON, M.A., LL.B., S.S.C.
 T. R. BOLAM, M.Sc., D.Sc.
 C. PATTERSON, M.I.Mech.E., M.I.Mar.E.
 D. M. WILSON, B.Sc., Ph.D., M.I.Chem.E.
 MARY GRIERSON, Mus.Doc.
 A. RAE GILCHRIST, M.D., P.R.C.P.E., F.R.C.P.
 Miss M. A. BROWN, M.A.
 K. L. LITTLE, M.A., Ph. D.
 J. P. MACKINTOSH, B.A., M.A.
 GILES ROBERTSON, M.A.
 J. KYLES, M.A.
 R. M. SILLITTO, B.Sc., F.Inst.P.

CONSTITUTION OF THE UNIVERSITY

THE University of Edinburgh was originally the "College of Edinburgh" or "The Town's College," founded in 1583 by the Town Council of Edinburgh, under general powers granted by the Charter of King James VI., dated 14th April 1582, and sometimes referred to as the Charter of Foundation, though technically it hardly merits that description. In any case, from the first the College possessed the privilege of conferring degrees. This privilege was ratified by the "Act of Confirmation," passed in 1621, which secured to the "College of James VI." (as it had come to be called) all the rights, immunities, and privileges enjoyed by the other Universities of Scotland. This ratification was renewed in the Treaty of Union between England and Scotland, and in the Act of Security. Gradually, in Acts of the General Assembly, of the Town Council, and of Parliament, the "College of James VI." came to be styled "The University of Edinburgh"; but it remained under the control and patronage of the Town Council until 1858, when, by the Universities Act, all the Universities of Scotland received new and autonomous constitutions. By the Universities (Scotland) Act, 1889, the University Court was constituted a body corporate, to which the whole property belonging to the University at the passing of the Act was transferred with full power of administration. The Senatus, as before, regulates the teaching and discipline of the University, subject to the provisions of the Universities Acts of 1858 and 1889.

• The **Chancellor** is elected by the General Council for life. Degrees are conferred by him, or by the Vice-Chancellor. The Chancellor is President of the General Council, and nominates an Assessor in the University Court.

The Right Hon. Baron Brougham and Vaux, 1859

The Right Hon. John Inglis, D.C.L., LL.D., 1868

The Right Hon. the Earl of Balfour, K.G., O.M., D.C.L., 1891

Sir James Matthew Barrie, Bart., O.M., M.A., LL.D., D.Litt., 1930

The Right Hon. Baron Tweedsmuir of Elsfield, P.C., G.C.M.G., C.H., M.A., D.C.L., LL.D., 1937

The Most Honourable the Marquess of Linlithgow, K.G., K.T., P.C., G.C.S.I., G.C.I.E., 1944

His Royal Highness The Duke of Edinburgh, K.G., K.T., LL.D., F.R.S., 1952

• The **Vice-Chancellor**, nominated by the Chancellor, may in the absence of the Chancellor confer degrees, but cannot discharge any other of the Chancellor's duties. In the Chancellor's and the Vice-Chancellor's absence, degrees are conferred by the senior member of the Senatus.

Sir David Brewster, 1860

Sir Alexander Grant, Bart., 1868

Sir William Muir, K.C.S.I., 1885

Sir William Turner, K.C.B., 1903

Sir J. Alfred Ewing, K.C.B., 1916

Sir Thomas Henry Holland, K.C.S.I., K.C.I.E., D.Sc., LL.D., F.R.S., 1929

Sir John Fraser, Bt., K.C.V.O., M.C., M.D., Ch.M., LL.D., F.R.C.S.E., F.A.C.S., Hon. Surgeon in Scotland to H.M. the King, 1944

Sir EDWARD VICTOR APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D., LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S., 1948.

Constitution of the University

The **Rector** is elected by the matriculated students in the University on such a day in October or November as may be fixed by the University Court, after consultation with the Senatus, but not later than the second Saturday in November. The term of office is three years. The next election will take place in October or November 1960. The Rector is President of, and nominates an Assessor in, the University Court. He may, before he appoints his Assessor, confer with the Students' Representative Council. No Principal or Professor of any Scottish University is eligible.

Rt. Hon. W. E. Gladstone, 1859

Thomas Carlyle, 1865

Rt. Hon. Lord Moncrieff, 1868

Sir W. Stirling Maxwell, Bart., 1871

Rt. Hon. Earl of Derby, 1874

Most Hon. the Marquess of Hartington, 1877

Rt. Hon. Earl of Rosebery, 1880

Rt. Hon. Earl of Iddesleigh, 1883

Most Hon. the Marquess of Lothian, 1887

Rt. Hon. G. J. Goschen, 1890

Rt. Hon. J. P. B. Robertson, 1893

Rt. Hon. Lord Balfour of Burleigh, 1896

Most Hon. the Marquess of Dufferin and Ava, 1899

Rt. Hon. Sir Robert Bannatyne Finlay, 1902

Rt. Hon. Richard Burdon Haldane, 1905

Rt. Hon. Geo. Wyndham, 1908

Rt. Hon. the Earl of Minto, 1911

Field-Marshal the Rt. Hon. Earl Kitchener of Khartoum, 1914

Admiral the Rt. Hon. Earl Beatty, 1917

Rt. Hon. David Lloyd George, 1920

Rt. Hon. Stanley Baldwin, 1923

Rt. Hon. Sir John Gilmour, 1926

Rt. Hon. Winston Churchill, 1929

General Sir Ian Hamilton, 1932

Field-Marshal the Right Hon. Viscount Allenby, 1935

Sir Herbert John Clifford Grierson, M.A., Litt.D., LL.D., Hon. D.Litt., F.B.A., 1936

Sir J. Donald Pollock, Bt., O.B.E., R.N.V.R., M.D., LL.D., Hon. D.Sc., 1939

The Rt. Hon. Viscount Cunningham of Hyndhope, K.T., G.C.B., O.M., D.S.O., LL.D., 1945

Alastair Sim, LL.D., 1948

Sir Alexander Fleming, F.R.C.S., F.R.C.P., F.R.S., 1951

Sir Sydney A. Smith, C.B.E., M.D., M.D. (Louvain), LL.D., F.R.C.P., D.P.H., 1954

James Robertson Justice, Dr.Phil., 1957

Under the Universities Act, 1858, the **University Court** has power :—

1. To review all decisions of the Senatus, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senatus, and with the sanction of the Chancellor : provided all such proposed improvements be submitted to the General Council for consideration.

Constitution of the University

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching, and other duties imposed on the Professors.

4. To fix and regulate from time to time the fees in the several classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of the Senatus, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class; provided no such sentence of censure, suspension, deprivation, etc., shall have effect until approved by Her Majesty in Council.

By Sec. xix any of the Rules and Ordinances enacted by the Universities Commissioners under the Act may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of Her Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate, with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body. By the same Act, the University Court, besides the powers conferred upon it by the Act of 1858, has power:—

1. To administer and manage the whole revenue and property of the University including funds mortified for bursaries and other purposes, and have all the powers necessary for the purpose.

2. To review any decision of the Senatus appealed against by a member of Senatus, or other member of the University having an interest, and to take into consideration all representations and reports made to it by the Senatus and by the General Council.

3. To review, on representation made by any of its members, or by any member of Senatus, any decision which the Senatus may come to under section seven, sub-section one, but the University Court shall not review any decision of the Senatus in a matter of discipline, except upon appeal taken either by a member of Senatus or by a member of the University directly affected.

4. To appoint professors whose chairs are in the patronage of the University; to appoint examiners and lecturers; and to grant recognition to the teaching of any college, or individual teacher, for the purposes of graduation.

5. To define, on application by any member of Senatus, the nature and limits of a professor's duties under his commission.

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or other person employed in teaching or examining, without the necessity of any one not a member of the Court appearing as prosecutor, and, in such proceedings, to call any member of the University to give evidence, and to require the production of documents, and to institute any inquiries it may deem necessary.

7. To appoint from among members of the University or others, not being members of the Senatus, one-third of the members of any committee charged, by ordinance of the Commissioners, with the superintendence of any libraries or museums belonging to the University; and on representation made by any of its members, or by any member of Senatus, to review any decision which the Senatus, in the exercise of its powers, may come to in respect of the recommendations of such committee.

8. To appoint committees of its own number, of not less than five members, with powers to report on any business entrusted to them by the University Court, or to carry out special instructions ordered by the Court.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission, to found new professorships, with the approval of the Universities Committee.

Constitution of the University

REGENTS AND PROFESSORS IN THE FACULTY OF ARTS SINCE 1583

Faculty of Arts

Regents of Philosophy, 1583-1708

(The Regents of Philosophy taught in rotation the four classes in the Curriculum of Arts, the "Bajans," the "Semi-Bajans," the "Bachelors," and the "Magistrands," as the Students of the first, second, third, and fourth year were respectively styled. Each Regent therefore taught every subject in the Curriculum—the Regent of Humanity being subordinate to the Regent of Philosophy, and being employed as a tutor in Classics for Unmatriculated Students. In 1708 the system was changed, and separate Professors for Latin, Greek, Logic and Metaphysics, Moral Philosophy, and Natural Philosophy, were substituted for the Regents. A Professorship of Mathematics had previously existed.)

- 1583 Robt. Rollock, *first Regent*
- 1583 Duncan Nairn
- 1585 Charles Lumisdail
- 1586 Adam Colt
- 1586 Alexander Scrimgeour
- 1587 Philip Heslop
- 1588 Charles Ferme or Fairholm
- 1589 Henry Charteris
- 1589 Patrick Sands
- 1594 George Robertson
- 1597 William Craig
- 1597 John Adamson
- 1598 James Knox
- 1598 Robert Scott
- 1601 Andrew Young
- 1603 James Reid
- 1604 David Munro
- 1606 Blase Colt
- 1607 James Fairley
- 1608 William King
- 1611 Andrew Stevenson
- 1625 Samuel Rutherford
- 1625 Robert Ranken
- 1626 Thomas Crawford
- 1626 John Brown
- 1631 Alexander Hepburn
- 1636 James Wyseman
- 1638 James Wright
- 1638 Robert Young
- 1639 Duncan Forrester
- 1644 William Tweedie
- 1644 James Pillans
- 1647 Andrew Suttie
- 1653 John Wishart
- 1665 George Sinclair
- 1666 John Wood
- 1667 William Paterson
- 1679 Gilbert M'Murdoch
- 1679 Andrew Massie
- 1680 Alexander Cockburn
- 1682 Robert Lidderdail

- 1684 Herbert Kennedy
- 1686 Thomas Burnet
- 1689 Alexander Cunningham
- 1690 William Law
- 1695 John Row
- 1695 William Scott
- 1701 Charles Areskine
- 1703 Robert Stewart
- 1707 Colin Drummond

Regents of Humanity, 1597-1708

- 1597 John Ray
- 1606 Blase Colt
- 1611 Oliver Colt
- 1611 Robert Burnet
- Andrew Stevenson
- 1623 Samuel Rutherford
- 1626 Thomas Craufurd
- 1630 John Armour
- 1633 Alexander Gibson
- 1636 James Wyseman
- 1638 Robert Young
- 1644 James Pillans
- 1653 John Wishart
- 1656 William Forbes
- 1656 James M'Gowan
- 1658 Hugh Smith
- 1663 William Cumming
- 1665 Andrew Ross
- 1665 Thomas Bell
- 1676 Gilbert M'Murdoch
- 1679 Alexander Cunningham
- 1689 John Drummond

Professors of Mathematics

- 1620 Andrew Young
- 1640 Thomas Craufurd
- 1674 James Gregory
- 1683 David Gregory
- 1692 James Gregory
- 1725 Colin M'Laurin
- 1747 Matthew Stewart
- 1775 Dugald Stewart
- 1785 Adam Ferguson
- 1785 John Playfair
- 1805 John Leslie
- 1819 William Wallace
- 1838 Philip Kelland
- 1879 George Chrystal
- 1912 Sir Edmund Taylor Whittaker
- 1946 ALEXANDER CRAIG AITKEN

Professors of Humanity

- 1708 Laurence Dundas
- 1728 Adam Watt
- 1734 John Kerr

Faculty of Arts

1741 George Stuart
 1775 John Hill
 1806 Alexander Christison
 1820 James Pillans
 1863 William Young Sellar
 1891 Harry Chester Goodhart
 1895 William Ross Hardie
 1919 Oliffe Legh Richmond
 1948 Michael Grant
 1959 IAN MCINTYRE CAMPBELL

Professors of Greek

1708 William Scott
 1729 William Scott, *secundus*
 1730 Colin Drummond
 1738 Robert Law
 1741 Robert Hunter
 1772 Andrew Dalziel
 1805 George Dunbar
 1852 John Stuart Blackie
 1882 Samuel Henry Butcher
 1903 Alexander William Mair
 1929 Sir Arthur Wallace Pickard-
 Cambridge
 1930 Sir William Calder
 1951 ARTHUR JAMES BEATTIE

Professors of Logic and Metaphysics

1708 Colin Drummond
 1730 John Stevenson
 1774 John Bruce
 1786 James Finlayson
 1808 David Ritchie
 1836 Sir Wm. Hamilton, Bart.
 1856 Alex. Campbell Fraser
 1891 Andrew Seth Pringle Pattison
 1919 Norman Kemp Smith
 1945 Arthur David Ritchie

Professors of Moral Philosophy

1708 William Law
 1729 William Scott
 1734 John Pringle
 1745 William Cleghorn
 1754 James Balfour
 1764 Adam Ferguson
 1785 Dugald Stewart
 1810 Thomas Brown
 1820 John Wilson
 1853 P. C. McDougall
 1868 Henry Calderwood
 1898 James Seth
 1924 Alfred Edward Taylor
 1944 John Macmurray
 1959 WINSTON HERBERT
 BARNES

Professors of Psychology

1931 James Drever
 1944 JAMES DREVER, *secundus*

Professors of Natural Philosophy

1708 Sir Robert Stewart
 1742 John Stewart
 1759 Adam Ferguson
 1764 James Russell
 1774 John Robison
 1805 John Playfair
 1819 Sir John Leslie
 1833 James David Forbes
 1860 Peter Guthrie Tait
 1901 James Gordon MacGregor
 1913 Charles Glover Barkla
 1945 NORMAN FEATHER

Tait Professors of Natural Philosophy

1923 Sir Charles Galton Darwin
 1936 Max Born
 1953 NICHOLAS KEMMER

Professors of Hebrew and Semitic Languages¹

Professors of Ecclesiastical History¹

Professors of Constitutional Law and Constitutional History²

1719 Charles Mackie
 1753 John Gordon
 1754 William Wallace
 1755 John Pringle
 1780 Alexander Fraser Tytler
 1801 William Fraser Tytler
 1821 Sir William Hamilton
 1837 George Skene
 1842 James Frederick Ferrier
 1846 Cosmo Innes
 1874 Aeneas Jas. Geo. Mackay
 1881 John Kirkpatrick
 1909 John Hepburn Millar
 1925 David Oswald Dykes
 1946 Laurance James Saunders
 1954 JOHN DAVID BAWDEN MITCHELL

Professors of Modern History³

1894 George W. Prothero
 1899 Sir Richard Lodge
 1925 Arthur Frederic Basil Williams
 1937 Vivian Hunter Galbraith
 1944 Benedict Humphrey Sumner
 1945 Richard Pares
 1954 DAVID BAYNE HORN

See FACULTY OF DIVINITY. ¹ "History" before 1909, "Law" after 1946.
² "History" before 1955.

Constitution of the University

Professors of Rhetoric and English Literature

- 1762 Hugh Blair
- 1784 William Greenfield
- 1801 Andrew Brown
- 1835 George Moir
- 1840 William Spalding
- 1845 Wm. Edmondstoune Aytoun
- 1865 David Masson
- 1895 George Saintsbury
- 1915 Sir Herbert John Clifford
Grierson
- 1935 John Dover Wilson
- 1945 William Lindsay Renwick
- 1959 JOHN EVERETT BUTT

Professors of Sanskrit

- 1862 Theodor Aufrecht
- 1875 Julius Eggeling
- 1914 Arthur Berriedale Keith

Professors of Political Economy²

- 1871 W. B. Hodgson
- 1880 Joseph Shield Nicholson
- 1926 Sir Frederick W. Ogilvie
- 1935 Sir Alexander Gray
- 1956 ALAN T. PEACOCK

Professors of Education

- 1876 Simon Somerville Laurie
- 1903 Alexander Darroch
- 1925 Sir Godfrey Hilton Thomson
- 1951 JOHN GUSTAVE PILLEY

Professors of Fine Art

- 1880 Gerard Baldwin Brown
- 1931 Herbert Read
- 1934 DAVID TALBOT RICE

Professors of Celtic Languages, Etc.

- 1882 Donald Mackinnon
- 1914 William John Watson
- 1938 James Carmichael Watson
- 1946 Myles Dillon
- 1949 KENNETH HURLSTONE JACKSON

Professors of Ancient History and Palæography

- 1901 Peter Hume Brown
- 1919 Robert Kerr Hannay
- 1943 WILLIAM CROFT DICKINSON

Faculty of Divinity

PROFESSORS IN THE FACULTY OF DIVINITY SINCE 1620

Professors of Divinity

- 1620 Andrew Ramsay
- 1627 Henry Charteris
- 1629 James Fairley

Professors of French¹

- 1918 Charles Sarolea
- 1931 James Middleton Moore
- 1933 John Orr
- 1955 DUNCAN McMILLAN

Professors of Accounting and Business Method

- 1919 Thomas Patrick Laird
- 1927 William Annan
- 1945 Adam George Murray
- 1957 DAVID STEEL ANDERSON

Professors of Organisation of Industry and Commerce

- 1925 William Oliver
- 1953 NORMAN CHARLES HUNT

Professors of German

- 1926 Otto Schlapp
- 1929 Walter Horace Bruford
- 1951 EUDO COLECESTRA MASON

Professors of Prehistoric Archaeology

- 1927 Vere Gordon Childe
- 1946 STUART PIGGOTT

Professor of Geography

- 1931 Alan Grant Ogilvie
- 1954 JAMES WREFOED WATSON

Professor of English Language and General Linguistics

- 1948 ANGUS MCINTOSH

Professor of International Relations (See FACULTY OF LAW)

Professors of Architecture

- 1948 Raymond Gordon Brown
- 1953 ROBERT HOGG MATTHEW

Professor of French Literature

- 1951 FREDERICK CHARLES GREEN

Professor of Mediæval History

- 1954 DENYS HAY

Professor of Economic History

- 1958 ALEXANDER JOHN YOUNGSON

¹ "French Language and Romance Linguistics" after 1951. ² "Economic Science" after 1957

Faculty of Divinity—Law

1662 Patrick Scougall
 1664 William Keith
 1675 Laurence Charteris
 1682 John Menzies
 1683 John Strachan
 1690 George Campbell
 1701 George Meldrum
 1709 William Hamilton
 1732 James Smith
 1733 John Gowdie
 1754 Robert Hamilton
 1779 Andrew Hunter
 1809 William Ritchie
 1828 Thomas Chalmers
 1844 John Lee
 1859 Thomas J. Crawford
 1876 Robert Flint
 1903 William Paterson Paterson
 1934 John Baillie
 1956 JOHN MCINTYRE

Professors of Hebrew

1642 Julius Conradus Otto
 1656 Alexander Dickson
 1679 Alexander Amedeus
 1681 Alexander Douglas
 1692 Patrick Sinclair
 1694 Alexander Rule
 1702 John Goodall
 1719 James Crawford
 1732 William Dawson
 1751 James Robertson
 1792 George Husband Baird
 1793 William Moodie
 1812 Alexander Murray
 1813 Alexander Brunton
 1848 David Liston
 1880 David Laird Adams
 1892 John Dobie
 1895 Archibald Robert Stirling
 Kennedy
 1937 NORMAN WALKER PORTEOUS

Professors of Ecclesiastical History

1702 John Cumming
 1715 William Dunlop
 1726 Matthew Crawford

1737 Patrick Cumming
 1762 Robert Cumming
 1788 Thomas Hardie
 1799 Hugh Meiklejohn
 1831 David Welsh
 1844 James Robertson
 1861 William Stevenson
 1872 Robert Wallace
 1876 Malcolm Campbell Taylor
 1908 James Mackinnon
 1931 JOHN HENDERSON SEAFORTH
 BURLEIGH

Professors of Biblical Criticism and Biblical Antiquities

1847 Robert Lee
 1868 Arch. Hamilton Charteris
 1898 John Patrick
 1915 William Alexander Curtis
 1946 William Manson
 1952 Matthew Black

Professors of Christian Dogmatics

1935 Hugh Ross Mackintosh
 1936 George Thomas Thomson
 1952 THOMAS FORSYTH TORRANCE

Professors of Church History

1935 Hugh Watt
 1950 Thomas Forsyth Torrance

Professors of New Testament Language, Literature and Theology

1935 William Manson
 1946 JAMES STUART STEWART

Professors of Old Testament¹ Literature and Theology

1935 Norman Walker Porteous
 1937 Oliver Shaw Rankin
 1955 JAMES BARR

Professors of Christian Ethics and Practical Theology

1939 Daniel Lamont
 1945 WILLIAM STRANG TINDAL

Faculty of Law

PROFESSORS IN THE FACULTY OF LAW SINCE 1707

Professors of Public Law

1707 Charles Areskine
 1734 William Kirkpatrick
 1735 George Abercrombie
 1759 Robert Bruce

1764 James Balfour
 1779 Allan Maconochie
 1796 Robert Hamilton
 1832 * *
 1862 James Lorimer

¹ 'Old Testament Language, Literature and Theology' before 1955.

Constitution of the University

- 1890 Sir Ludovic James Grant, Bt.
1922 William Wilson
1945 ARCHIBALD HUNTER CAMPBELL

Professors of Civil Law

- 1710 James Craig
1732 Thomas Dundas
1745 Kenneth M'Kenzie
1755 Robert Dick
1792 John Wilde
1800 Alexander Irving
1827 Douglas Cheape
1842 A. Campbell Swinton
1862 James Muirhead
1889 Henry Goudy
1893 James Mackintosh
1938 Matthew George Fisher
1958 THOMAS BROWN SMITH

*Professors of Constitutional Law and Constitutional History*¹

- 1909 John Hepburn Millar
1925 David Oswald Dykes
1946 Laurance James Saunders
1954 JOHN DAVID BAWDEN MITCHELL

Professors of Scots Law

- 1722 Alexander Bayne
1737 John Erskine
1765 William Wallace
1786 David Hume
1822 George Joseph Bell

- 1843 John Schank More
1861 George Ross
1864 George Moir
1865 Norman Macpherson
1888 Sir John Rankine
1922 Robert Candlish Henderson
1947 GEORGE ALLISON MONTGOMERY

Professors of Forensic Medicine

(See FACULTY OF MEDICINE)

Professors of Conveyancing

- 1825 Macvey Napier
1847 Allan Menzies
1856 A. Montgomerie Bell
1866 James Stuart Fraser Tytler
1892 John Philp Wood
1900 John Little Mounsey
1922 Sir Ernest MacLagan Wedderburn
1935 Harry Henderson Monteath
1955 GEORGE LOVAT FRASER HENRY

*Professors of Political Economy*¹

*Professors of Ancient History and Palæography*¹

Professors of International Relations

- 1948 James Leslie Brierly
1951 Carlile Aylmer Macartney.
1958 ELIZABETH WISKEMANN

Faculty of Medicine

Some of the Chairs were instituted in the seventeenth century, but it does not appear that the Medical School and Faculty of the University were established until the beginning of the eighteenth century.

PROFESSORS IN THE FACULTY OF MEDICINE SINCE 1676

Professors of Botany

- 1676 James Sutherland
1706 Charles Preston
1712 George Preston

Professors of Medicine and Botany

- 1738 Charles Alston
1761 John Hope
1786 Daniel Rutherford
1820 Robert Graham
1845 John Hutton Balfour

Professors of Medicine

- 1685 { Sir Robert Sibbald
James Halket
Archibald Pitcairne

Professors of Institutes of Medicine or Physiology

- 1724 William Porterfield
1726 { Andrew St Clair
John Rutherford
1747 Robert Whytt
1766 William Cullen
1773 Alex. Monro Drummond
1776 James Gregory
1789 Andrew Duncan
1819 Andrew Duncan, *secundus*
1821 William Pulteney Alison
1842 Allen Thomson
1848 John Hughes Bennett
1874 William Rutherford
1899 Sir Edward Sharpey-Schafer
1933 Ivan de Burgh Daly

See also FACULTY OF ARTS.

Faculty of Medicine

1948 William Henry Newton
1950 DAVID WHITTERIDGE

Professors of Medicine

1724 William Porterfield
1726 Andrew St Clair
1726 John Rutherford
1747 Robert Whytt
1766 John Gregory
1773 William Cullen
1790 James Gregory
1821 James Home
1842 William Pulteney Alison
1855 Thomas Laycock
1876 Sir Thomas Grainger Stewart
1900 John Wyllie
1915 George Lovell Gulland
1928 William Thomas Ritchie
1938 Sir Stanley Davidson
1959 KENNETH WILLIAM DONALD

Professors of Anatomy

1700 Robert Elliot (1705-16)
1708 Adam Drummond (1708-20)
1716 John McGill (1716-20)
1720 Alexander Monroe (1720-58)
1754 Alexander Monroe, *secundus*
(1754-1808)
1798 Alexander Monroe, *tertius* (1798-
1846)
1846 John Goodsir
1867 Sir William Turner
1903 Daniel John Cunningham
1909 Arthur Robinson
1931 James Couper Brash
1954 GEORGE JOHN ROMANES

Professors of Chemistry and Medicine

1713 James Crawford
1726 Andrew Plummer
1726 John Innes
1755 William Cullen
1766 Joseph Black
1795 Thomas Charles Hope

Professors of Chemistry in relation to Medicine

1919 George Barger
1938 Guy Frederic Marrian
1959 REGINALD BRETTEAUER FISHER

*Professors of Midwifery*¹

1726 Joseph Gibson
1739 Robert Smith
1756 Thomas Young
1780 Alexander Hamilton
1800 James Hamilton
1840 Sir J. Y. Simpson, Bart.

1870 Alex. Russell Simpson
1905 Sir John Halliday Croom
1922 Benjamin Philp Watson
1926 Robert William Johnstone
1946 ROBERT JAMES KELLAR

Professors of Materia Medica

1768 Francis Home
1798 James Home
1821 Andrew Duncan, *secundus*
1832 Sir Robert Christison, Bart.
1877 Sir Thomas Richard Fraser
1918 Arthur Robertson Cushny
1926 Alfred Joseph Clark
1942 John Henry Gaddum
1958 WALTER LAING MACDONALD
PERRY

Professors of Surgery

1777 Alexander Monroe, *secundus*
(1777-1808)
1798 Alexander Monroe, *tertius* (1798-
1831)
1831 John William Turner
1836 Sir Charles Bell
1842 James Miller
1864 James Spence
1882 John Chiene
1909 Henry Alexis Thomson
1924 Sir David Percival Dalbreck
Wilkie
1939 Sir James Rognvald Learmonth

Professor of Surgical Science

1956 MICHAEL FRANCIS ADDISON
WOODRUFF

Professors of Clinical Surgery

1803 James Russell
1833 James Syme
1869 Joseph Lister
1877 Thomas Annandale
1908 Francis M. Caird
1919 Sir Harold J. Stiles
1925 Sir John Fraser
1946 Sir James Rognvald Learmonth
1956 JOHN BRUCE

Professors of Forensic Medicine

1807 Andrew Duncan, *secundus*
1820 William Pulteney Alison
1822 Robert Christison
1832 Thomas Stewart Traill
1862 Sir Douglas MacLagan
1897 Sir Henry Duncan Littlejohn
1906 Harvey Littlejohn
1927 Sir Sydney Alfred Smith
1953 DOUGLAS JAMES ACWORTH KERR

¹ "Obstetrics and Gynaecology" after 1946.

Constitution of the University

Professors of Pathology

- 1831 John Thomson
1842 William Henderson
1869 W. R. Sanders
1881 William Smith Greenfield
1912 James Lorrain Smith
1931 Alexander Murray Drennan
1954 GEORGE LIGHTBODY MONT-
GOMERY

[Professors of Military Surgery]

- 1806 John Thomson
1823 Sir George Ballingall
Chair abolished in 1856]

*Professors of Public Health*¹

- 1898 Chas. Hunter Stewart
1925 Percy Samuel Lelean
1944 Francis Albert Eley Crew
1955 JOHN HOWIE FLINT
BROTHERSTON

Professors of Bacteriology

- 1913 James Ritchie
1923 Thomas Jones Mackie
1958 ROBERT CRUICKSHANK

Professors of Clinical Medicine

- 1913 William Russell
1919 Francis Darby Boyd
1922 Edwin Bramwell
1935 Edwin Matthew
1936 David Murray Lyon
1953 * * *

Professors of Tuberculosis

- 1917 Sir Robert William Philip
1945 Charles Cameron
1952 JOHN WENMAN CROFTON

Professors of Therapeutics

- 1919 Jonathan Campbell Meakins
1924 David Murray Lyon
1936 DERRICK MELVILLE DUNLOP

*Professors of Psychological Medicine*²

- 1919 George Matthew Robertson
1932 Sir David Kennedy Henderson
1955 ALEXANDER KENNEDY

Professors of Child Life and Health

- 1931 Charles McNeil
1946 RICHARD WHITE BERNARD ELLIS

Professor of Dermatology

- 1946 GEORGE HECTOR PERCIVAL

Professor of Medical Radiology

- 1947 ROBERT McWHIRTER

Professor of Neurological Surgery

- 1948 NORMAN McOMISH DOTT

Professor of Ophthalmology

- 1954 GEORGE IAN SCOTT

Professor of Orthopædic Surgery

- 1948 Sir Walter Mercer
1958 JOHN IVOR PULSFORD JAMES

Professor of Dental Surgery

- 1951 Arthur Cyril William Hutchinson
1958 JOHN BOYES

Professor of Veterinary Surgery

- 1953 William McGregor Mitchell
1959 JAMES SPREULL ANDREW
SPREULL

Professor of Veterinary Medicine

- 1953 GEORGE FREDERICK BODDIE

Professor of Veterinary Hygiene and Preventive Medicine

- 1953 ALEXANDER ROBERTSON

The Professors of Medicine and Therapeutics are also Professors of Clinical Medicine.

Faculty of Science

PROFESSORS IN THE SUBJECTS NOW EMBRACED IN THE FACULTY

Professors of Astronomy

- 1786 Robert Blair
1834 Thomas Henderson
1846 Charles Piazzi Smyth
1889 Ralph Copeland
1905 Sir Frank Watson Dyson
1910 Ralph Allen Sampson

- 1938 William Michael Herbert
Greaves
1957 HERMANN ALEXANDER BRÜCK

Professors of Agriculture

- 1790 Andrew Coventry
1831 David Low

¹ "Public Health and Social Medicine" after 1946.

² "Psychiatry" before 1955.

Science, Music—Gifford Lectureship

- 1854 John Wilson
1885 Robert Wallace
1922 Sir James A. Scott Watson
1926 Ernest Shearer
1944 STEPHEN JOHN WATSON

Professors of Engineering

- 1868 Fleeming Jenkin
1885 George Frederick Armstrong
1901 Sir Thomas Hudson Beare
1946 RONALD NATHAN ARNOLD

Professors of Mining

- 1924 Henry Briggs
1936 William Hutchison Macmillan
1948 ROBERT MCADAM

Professors of Geology

- 1871 Archibald Geikie
1882 James Geikie
1914 Thomas John Jehu
1943 Arthur Holmes
1956 FREDERICK HENRY STEWART

Professors of Forestry

- 1920 Edward Percy Stebbing
1951 MARK LOUDEN ANDERSON

Professors of Mathematics and Natural Philosophy (two)

(See FACULTY OF ARTS)

Professors of Botany

- 1879 Alexander Dickson
1888 Sir Isaac Bayley Balfour
1922 Sir William Wright Smith
1958 ROBERT BROWN

Professors of Natural History

- 1770 Robert Ramsay
1779 John Walker

- 1804 Robert Jameson
1854 Edward Forbes
1855 George James Allman
1870 Sir Wylv. T. C. Thomson
1882 James Cossar Ewart
1927 James Hartley Ashworth
1936 James Ritchie
1952 MICHAEL MEREDITH SWANN

Professor of Zoology

- 1919-27 James Hartley Ashworth

Professors of Chemistry

- 1844 William Gregory
1858 Lyon Playfair
1869 Alexander Crum Brown
1908 Sir James Walker
1928 James Pickering Kendall
1959 TOM LEADBETTER COTTRELL

Professors of Animal Genetics

- 1928 Francis Albert Eley Crew
1946 CONRAD HAL WADDINGTON

Professors of Bacteriology, Pathology, Materia Medica, Chemistry as applied to Medicine, Anatomy, Physiology and Public Health

(See FACULTY OF MEDICINE)

[Professor of Technology]

- 1855 George Wilson
Chair abolished in 1859]

Professor of Organic Chemistry

- 1947 EDMUND LANGLEY HIRST

Professor of Chemical Technology

- 1955 KENNETH GEORGE DENBIGH

Faculty of Music

Reid Professors of Music

- 1839 John Thomson
1841 Sir Henry Rowley Bishop
1844 Henry Hugh Pearson
1845 John Donaldson

- 1865 Sir Herbert Stanley Oakeley
1891 Frederick Niecks
1914 Sir Donald Francis Tovey
1941 SIDNEY THOMAS MAYOW
NEWMAN

Gifford Lectureship

This Lectureship was endowed by Adam Gifford, Senator of the College of Justice, who died in 1887. Its purpose was to promote and diffuse "the study of Natural Theology in the widest sense of the term—in other words, the knowledge of God," and the Lecturer was not to be subject to any religious test.

- 1888 J. Hutchison Stirling
1890 Sir George G. Stokes
1892 Otto Pfeleiderer
1894 A. Campbell Fraser

- 1896 C. B. Tiele
1899 William James
1903 H. M. Gwatkin
1905 Simon S. Laurie

Constitution of the University

1907 Robert Flint	1934 Albert Schweitzer
1909 W. Warde Fowler	1935 Sir Charles Scott Sherrington
1911 Bernard Bosanquet	1937 Reinhold Niebuhr
1913 Henri Bergson	1940 Oscar Kraus
1915 Sir William M. Ramsay	1945 Christopher Dawson
1918 G. F. Stout	1949 Niels Bohr
1921 A. Seth Pringle Pattison	1950 C. E. Raven
1924 Sir James G. Frazer	1952 A. J. Toynbee
1926 Sir A. S. Eddington	1954 Rudolf Bultmann
1927 A. N. Whitehead	1956 A. M. Farrer
1928 John Dewey	1957-8 Wolfgang Köhler
1930 Nathan Söderblom	1959-60 R. D. MacLennan
1932 Edwyn Bevan	1961-2 JOHN BAILLIE

Gunning Victoria Jubilee Lectureship

This Lectureship was founded in 1887 by Dr R. H. Gunning of Edinburgh and Rio de Janeiro, with a view to promote the study of Natural Science among candidates for the ministry, and to diffuse among ministers "the fruits of study in Science, Philosophy, Languages, Antiquity, and Sociology."

1893 Rev. Adam Milroy	1929 Prof. Edward Robertson
1896 Rev. Hugh Macmillan	1934 Rev. Prof. John Baillie
1899 Rev. John M. Robertson	1936 Very Rev. Principal Dickie
1904 Rev. John Morrison	1953 Rev. Prof. Norman Sykes
1910 Rev. David Watson	1954 Michael B. Foster
1913 Rev. Bruce M'Ewen	1956 Dr Egon Wellesz
1916 Rev. Colin Campbell	1957 Prof. W. M. Millar
1919 Rev. Colin Campbell	1958 Dr H. Kraemer
1923 Rev. Richard Bell	1959 Rev. Prof. G. Wingren
1926 Rev. Thomas Wilson	

Munro Lectureship

This Lectureship on Anthropology and Prehistoric Archaeology, was founded in 1910 by Dr Robert Munro of Largs, Ayrshire.

1911 Robert Munro	J. H. De Largy
1912 James Geikie	1952 { Le Gros Clark
1913 David G. Hogarth	{ E. Franklin Frazier
1915 George Macdonald	1954 Raymond W. Firth
1920 Abbé Henri Breuil	{ E. M. Jope
1922 R. A. S. Macalister	{ Marie MacDermott
1924 Sir Arthur Keith	{ Daryll Forde
1926 Gerard Baldwin Brown	{ K. P. Oakley
1928 Vere Gordon Childe	{ Audrey Richards
1931 Charles Leonard Woolley	1956 { J. C. Trevor
1932 { Vere Gordon Childe	{ I. Schapera
1934 { L. S. B. Leakey	1957 { C. A. Raleigh
1935 Vere Gordon Childe	{ A. Christie
1936 Adolph Mahr	{ C. Mountford
1938 Vere Gordon Childe	{ W. Glasbergen
1939 Laviosa Zambotti	1958 { Prof. Gluckman
1940 { H. Ian Hogbin	{ B. Hope-Taylor
1950 W. Lloyd Warner	{ J. Mellaart
1951 { Grace Crowfoot	{ SETON H. F. LLOYD
{ A. R. Radcliffe-Brown	{ C. VON FÜRER-HAIMENDORF
	1959 { KAJ BIRKET-SMITH
	{ H. O'N. HENCKEN

Constitution of the University

Sharpey Schafer Memorial Lectureship

This Lectureship was established in 1933 in recognition of the distinguished work, and to perpetuate the memory of Professor Sir Edward Sharpey Schafer who occupied the Chair of Physiology in the University of Edinburgh from 1899 to 1933.

1935 Sir Charles Scott Sherrington	1949 H. S. Raper
1937 Sir Henry Hallet Dale	1951 A. V. Hill
1939 C. A. Lovatt Evans	1953 E. G. T. Liddell
1941 Sir Joseph Barcroft	1955 R. A. McCance
1943 E. D. Adrian	1957 G. Harris
1945 E. B. Verney	1959 Sir Lindor Brown
1947 Charles H. Kellaway	

Sir John Fraser Memorial Lecture

The Lecture, to be delivered triennially, was founded in memory of the late Sir John Fraser, Bt., K.C.V.O., M.C., M.D., Ch.M., LL.D., F.R.C.S.E., F.A.C.S., Hon. Surgeon in Scotland to H.M. the King, Regius Professor of Clinical Surgery (1925-44) and Principal and Vice-Chancellor of the University (1944-47).

1951, J. M. Graham, LL.D., F.R.C.S.

1954, Evars A. Graham, B.A., Sc.D., M.D., Hon.F.R.C.S.(Eng.).

1957, Sir Gordon Gordon-Taylor, K.B.E., C.B.

The General Council consists of (a) the Chancellor, the members of the University Court, the Professors, the graduates of the University (except honorary graduates) and (b) the Readers and Lecturers of one or more years' standing, during their tenure of office. The registration fee for those qualified under category (a) is £1 and the Register of members so qualified, and now containing the names of 30,732 members, is conclusive of the rights of persons to be members as at 1st January 1959. By the Universities Elections Amendment (Scotland) Act all candidates for graduation must pay the registration fee before they can appear for graduation.

Under the Universities Act of 1858, and the Commissioners' Ordinance No. 1, section 4, the Council meets twice a year—viz., on the first Wednesday of May and on the last Friday in October, at 5.15 p.m., "to take into their consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time on such questions to the University Court, who shall consider the same, and return to the Council their deliverance thereon." All proposed improvements in the internal arrangements of the University "shall be submitted to the University Council for their consideration."

By the Universities (Scotland) Act, 1889, besides the two statutory meetings above mentioned, the Council "may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them or to carry out instructions given to them by the Council." The Commissioners under this Act have fixed the quorum of the General Council at ten for every thousand or fraction of a thousand of members on the register, but this provision does not apply to the statutory half-yearly meetings, or to adjourned meetings.

In the case of an election of Assessors by the Council, the names and designations of persons to be proposed for the office, together with the names and designations of the proposers and seconders of such persons, shall be intimated to the Secretary in writing not less than twenty-one clear days before the meeting of the Council at which the election takes place.

In the absence of the Chancellor, the Rector, and the Principal, at the meetings of the General Council, the Chancellor's Assessor, and in his absence the Rector's Assessor, shall preside; and in the absence of all of these, a

Constitution of the University—Arms—Degrees, etc.

Chairman shall be elected by the meeting, but no member of *Senatus* can preside, vote, or take part at any meeting held for the election of an Assessor or Assessors. The Chairman shall decide all points of order, and has a deliberative and a casting vote; and in the case of an equality of votes at the conclusion of a poll, the Chairman, or any one appointed by the University Court to act for him, shall have a casting vote.

The Chancellor of the University, who holds office for life, and four of the Assessors, who hold office for four years, in the University Court are elected by the Council. Two of the Assessors retire biennially, but may be re-elected. In the case of a casual vacancy the person elected to fill it retires when the person whom he succeeded would in ordinary rotation have retired. The General Council appoints a business committee.

For the **Students' Representative Council**, see p. 39.

Scottish Universities Committee of the Privy Council

The Scottish Universities Committee of the Privy Council consists of the Lord President of the Privy Council; the Secretary of State for Scotland; the Lord Justice-General; the Lord Justice-Clerk; The Lord Advocate; and the Chancellor and the Rector of each of the Universities, if members of the Privy Council; one member at least of the Judicial Committee of the Privy Council; and such other member or members of the Privy Council as Her Majesty may appoint. The powers and duties of this Committee may, subject to rules or regulations passed by Her Majesty in Council, be exercised and discharged by any three or more of the members, one of whom shall be a member of the judicial Committee of the Privy Council or a Senator of the College of Justice in Scotland.

Arms of the University

The blazon is as follows:—*Argent, on a saltire azure, between a thistle proper in chief and a castle on a rock sable in base, a book expanded or.* There is no motto. The original grant of arms in 1789 with an illuminated blazon in the margin is in the University Library.

Degrees, Diplomas, and Certificates awarded by the University

The following degrees are awarded *honoris causa*:—Doctor of Divinity (D.D.); Doctor of Laws (LL.D.); Doctor of Music (D.Mus.); Master of Arts (M.A. *honoris causa*).

The following degrees are conferred after examination, or the presentation of a thesis, or both, in the various Faculties:—

All Faculties—Doctor of Philosophy (Ph.D.).

Divinity—Bachelor of Divinity (B.D.), *simpliciter* or with distinction.

Law—Bachelor of Law (B.L.), *simpliciter* or with distinction; Bachelor of Laws (LL.B.), *simpliciter* or with distinction; Doctor of Laws (LL.D.).

Medicine—Bachelor of Medicine and Bachelor of Surgery (M.B., Ch.B.) Ordinary or with Honours; Bachelor of Dental Surgery (B.D.S.) Ordinary or with Honours; Bachelor of Veterinary Medicine and Surgery (B.V.M.&S.) Ordinary or with Honours; Master of Surgery (Ch.M.), *simpliciter* or with commendation; Doctor of Medicine (M.D.), *simpliciter* or with commendation; Master of Dental Surgery (M.D.S.); Doctor of Veterinary Medicine and Surgery (D.V.M.&S.).

Arts—Master of Arts (M.A.), Ordinary or with Honours; Bachelor of Commerce (B.Com.); Bachelor of Education (B.Ed.), *simpliciter* or with distinction; Bachelor of Architecture (B.Arch.) with Honours; Master of Architecture (M.Arch.); Doctor of Letters (D.Litt.).

Science—Bachelor of Science (B.Sc.), Ordinary or with Honours, in Pure Science or Applied Science (Agriculture, Engineering, Forestry, Mining, and Technological Science); Master of Science (M.Sc.), in Pure Science or

Academic Costume

Applied Science (Agriculture, Engineering, Forestry, Mining, and Technological Science); Doctor of Science (D.Sc.), in Pure Science or Applied Science (Agriculture, Engineering, Forestry, Mining, and Technological Science).

Music—Bachelor of Music (B.Mus.), Ordinary or with Honours; Doctor of Music (D.Mus.).

The following **Diplomas** are awarded after examination :—

Law—Administrative Law and Practice.

Medicine—Psychiatry, Public Health, Radiotherapy, Radiodiagnosis, Tropical Medicine and Hygiene, Medical Services Administration, Tropical Veterinary Medicine, and Veterinary State Medicine.

Arts—Actuarial Mathematics, Applied Linguistics, Clinical Psychology, Education, English Studies, Geography, Islamic Studies, General Linguistics, Palæography and Manuscript Studies, Phonetics, Social Anthropology, and Social Study.

Science—Animal Genetics, Applied Dynamics, Biology, Electronics and Radio, Forestry, and Rural Science.

The following **Certificates** are awarded after examination :—

Arts—Educational Studies, Medical Social Work, Psychiatric Social Work, Public Administration, Social Study, and Nursing Studies.

The University also awards a Certificate of Physical Proficiency, details of which are given in the Programme of Admission to the University.

Academic Costume

Officials of the University

Chancellor.—Robe of black brocaded satin, trimmed with gold lace and with gold frogs down the fronts and on the sleeves. Black silk velvet trencher, with gold button and tassel.

Vice-Chancellor.—Robe and trencher the same as the Chancellor's, but trimmed with silver in place of gold.

Rector.—Black silk gown, with crimson silk velvet sleeves; the gown is trimmed round the collar and down the front edges with broad gold lace, and the sleeves round the bottom with narrower gold lace. Black silk velvet trencher, with gold button and tassel.

Principal.—Mauve corded silk robe trimmed with velvet to match. Black silk velvet trencher, with gold button and tassel.

Members of the University Court.—Black silk robe, open sleeves, with gold frog on each sleeve.

With all the above robes, hoods appropriate to the degrees are worn.

Graduates of the University

The full academic dress of Doctors of Divinity, Laws, Letters, Medicine, Music, Science and Veterinary Medicine and Surgery is a gown of superfine scarlet cloth, with loose sleeves, the facings down the front and round the shoulders covered, and the sleeves lined, with rich scarlet silk. The birretum for these robes is of black silk velvet. The hoods are those appropriate to the degree.

The form of gown worn by other graduates of the University is the same for all the Faculties, namely black silk or stuff with long sleeves. The hoods worn are those appropriate to the degree.

Graduands

Gowns.—Honorary graduands for the degree of Doctor of Divinity, Doctor of Laws, Doctor of Music appear for graduation in a gown of superfine scarlet cloth, with loose sleeves, the facings down the front and round the

Academic Costume

shoulders covered, and the sleeves lined, with rich scarlet silk. The birretum for these robes is of black silk velvet. Honorary graduands for the degree of Master of Arts appear for graduation in a gown of black silk or stuff.

Graduands for the degree of Doctor of Letters, Doctor of Medicine, Doctor of Music, Doctor of Science and Doctor of Veterinary Medicine and Surgery appear for graduation in a gown of superfine scarlet cloth, with loose sleeves, the facings down the front and round the shoulders covered, and the sleeves lined with rich scarlet silk, wearing the hood appropriate to the degree they are about to receive. All other graduands wear a gown of black silk or stuff, with long sleeves and the hood appropriate to the degree they are about to receive.

Hoods.—The proper hoods are :—

B.Com.—Black silk, lined with pale primrose yellow silk, and edged with white fur ;

B.D.—Black silk, lined with purple silk, and bordered with white fur ;

B.D.S.—Black stuff, lined with crimson silk bordered with ivory poplin three inches broad, edged with white fur and showing three inches of crimson silk at the front of the neckband ;

B.Ed.—Black silk, lined with pale blue silk, and edged with white fur ;

B.L.—Black silk, edged with blue silk three inches broad, and trimmed with white fur ;

B.Mus.—Scarlet silk, with white silk lining, and edged with white fur ;

B.Sc.—Black silk, lined with green silk, and bordered with white fur ;

B.V.M.&S.—Black silk lined with maroon silk bordered with golden yellow three inches broad, edged with white fur ;

Ch.M.—Black velvet, lined with golden silk ;

D.D.—Black cloth, with appended cape, lined and faced with purple silk ;

D.Litt.—Black cloth, lined with royal blue silk shot with maize-colour ;

D.Mus.—Rich scarlet cloth, lined with rich white corded silk ;

D.Sc.—Black cloth, lined with green silk ;

D.V.M.&S.—Black silk, lined with maroon silk bordered with golden yellow three inches broad ;

LL.B.—Black silk, lined with blue silk, and bordered with white fur ;

LL.D.—Black cloth, with appended cape, lined and faced with blue silk ;

M.A.—Black silk, lined with white silk ;

M.B., Ch.B.—Black silk, lined with crimson silk bordered with white fur ;

M.D.—Black silk, with appended cape, lined and faced with crimson silk ;

M.D.S.—Black cloth, lined with crimson silk bordered with ivory poplin three inches broad, and showing three inches of crimson silk at the front of the neckband ;

M.Sc.—Black silk lined with white silk bordered with green silk three inches broad, and showing three inches of green silk at the front of the neckband ;

Ph.D.—Black cloth, lined with blue silk shot with brown.

Student Numbers

Number of Matriculated Students for 1958-59

Note.—Full-time students are those studying for a degree, diploma or certificate. Part-time students are part-time Ph.D. students and non-graduating students.

Total Number of Students

	Full-Time.	Part-Time.	Total.
Men	3769	1243	5012
Women	1768	224	1992
Totals	5537	1467	7004

Number of Full-Time and Part-Time Students in each Faculty

FACULTY.	Full-Time.			Part-Time			Totals.
	Men.	Women.	Total.	Men.	Women.	Total.	
Arts	1076	1154	2230	360	154	514	2744
Divinity	119	2	121	112	5	117	238
Law	113	23	136	104	4	108	244
Medicine	1297	330	1627	507	51	558	2185
Music	9	24	33	1	2	3	36
Science	1155	235	1390	159	8	167	1557
Totals	3769	1768	5537	1243	224	1467	7004

In addition, 28 non-matriculated students were admitted to certain classes on payment of an Entrance Fee of £1.

Recent Benefactions

Edinburgh University Press

The University Press was established by the University Court with as its object the publication of books of high merit, both academic and popular. The Press is administered by a Committee, appointed by the Court, which controls the general policy and selects manuscripts for publication. These are then printed by a selected printer and advertised and sold by an Edinburgh publishing firm, Messrs Thomas Nelson & Sons, Ltd., as Agents for the Press.

Nearly fifty works have now been published. A full catalogue is available on request. Members of Staff are cordially invited to visit the Press Office and suggestions or criticisms will be equally welcome.

All communications with regard to the Press should be made to the Secretary, Edinburgh University Press, 1 George Square, Edinburgh, 8.

Recent Benefactions

In many ways the University is in need of being strengthened and extended, and the friends of the University are respectfully reminded that additional chairs, lectureships, laboratory equipments, library endowments, fellowships, scholarships, bursaries, and funds for research and for general maintenance are urgently required. The names of benefactors, if so desired, may be connected with the benefactions they bestow. Such benefactions may simply be conveyed to the "University of Edinburgh." All necessary information will be gladly afforded by the Principal, the Secretary to the University, the Deans of the Faculties, or the University Librarian.

The following list gives the benefactions received during the session before the issue of the present CALENDAR. For earlier lists, see previous issues of the UNIVERSITY CALENDAR.

1958-59

The Nuffield Foundation: (a) £50,000 for three years for a scheme of research into the problems of fibroblasts to be undertaken by Professors Swann and Waddington.

(b) £13,850 to the Department of Social Anthropology to enable Dr Kenneth Little to make a study of urbanisation in Sierra Leone.

(c) £11,000 to cover the cost of a Temporary Research Unit in the Department of Botany for three years.

The Joseph Rowntree Village Trust: £25,000 in support of a Home and Neighbourhood Study, proposed by Miss Brown and Mr Burns of the Department of Social Study, the Enquiry to be known as the "Edinburgh Community Research and Development Studies."

The Department of Scientific and Industrial Research: (a) £9200 for the two years ending 30th September 1962 towards the cost of an investigation into the physiology and biochemistry of cell division and cell expansion to be conducted by Professor Brown.

(b) £1725 for three years ending 30th September 1962 towards the cost of research into growth of individual yeast cells to be conducted by Dr J. M. Mitchison.

(c) £2460 for three years ending 30th September 1962 towards the cost of research into the nature of the effect of single gene mutations upon behaviour patterns in *Drosophila* conducted by Professor Swann and Dr A. W. G. Manning.

(d) £225 for the period December 1957 to July 1958 in aid of research to be conducted by Mr T. Burns of the Social Sciences Research Centre on Management and Innovation.

Recent Benefactions

(e) £2500 for the year 31st December 1959 towards the cost of research on the accurate measurement of the velocity of nuclear particles which Dr G. R. Evans (Department of Natural Philosophy) proposed to conduct.

The Rockefeller Foundation : (a) \$19,300 and £2000 towards the support and examination of the undergraduate medical teaching programmes by the Faculty of Medicine for use during the two-year period beginning 1st September 1959, the portion of the grant in dollars to be used to send Faculty members to the United States and possibly elsewhere for about two months, and the portion in sterling to be used for travel and maintenance for participants at educational conferences in Great Britain.

(b) \$2000 in support of study by Professor Waddington on the influence of Science on Visual Art.

The Wellcome Trust : £25,000 for the cost of the extension of the Department of Zoology.

The Ford Foundation : £8000 to the London School of Economics and the Department of Political Economy for a study, in certain countries, of Government Expenditure and Taxation Growth in relation to Economic Development.

The Medical Research Council : £5700 to the Department of Medicine for the cost of special apparatus and for the salaries of one scientific assistant and two technical assistants, and other expenses.

Department of Health, Education, and Welfare, Maryland, United States of America : \$10,000 for research into "The action of chemical mutagens on micro-organisms," to be conducted by Dr Charlotte Auerbach.

The Distillers Company Ltd. : £600 for three years, in the first place, to enable one or two students to undertake research in the Department of Organic Chemistry under the direction of Professor Hirst.

Messrs Smart & Brown (Machine Tools) Ltd. : a "Sabel" 9 in. Precision Bench Lathe complete with electrical equipment to the Department of Engineering.

The Government of the Republic of the Sudan : £410, 5s. towards development scheme of the Forestry School.

Messrs Bryant & May Limited : £100 per annum for three years to assist in research work in the Department of Forestry.

Norwegian Government : £100 to the School of Scottish Studies to enable Mr S. F. Sanderson, Senior Research Fellow, to undertake a study of material and methods in Norwegian folk-life institutes.

Committee of the Staff Common Room : £10 in recognition of assistance granted by the University Court to the Common Room during the present academic year.

The late Professor N. Kemp Smith : £2000 the income of which is to be applied, on the advice of the Senatus Academicus, for the purpose of aiding deserving students (men or women) to travel on the continent of Europe or elsewhere (the more distant parts of the British Isles not excepted).

The late Miss Helen Doig, 14 West Mayfield, Edinburgh : £4000 "the interest thereof to be applied for an Annual Bursary or Bursaries in the Faculty of Music to promote as far as possible the study of Scottish Music."

The late Mr Xavier Giral, 7 Woodside Crescent, Glasgow : £1000 "for the purpose of providing for a bursary or prize (annual or bi-annual or otherwise) in connection with the Spanish Language, the said legacy to be invested by the said University and the interest applied and used for the said bursary or prize."

Recent Benefactions

Cerebos Group of Companies : Scholarship of £500 per annum of which £350 has to be paid as maintenance and the balance set aside for the payment of necessary fees and for the purchase of special apparatus and chemicals required by the scholar. The Scholarship, tenable in the Department of Chemistry, is for research in the field of Starch Chemistry.

The Noel Buxton Trust : £500 per annum for two years, commencing September 1959, to establish a studentship in Race Relations.

The Shell Refining Company : Twenty-five guineas, to be divide into three parts (13, 6 and 6 guineas respectively) of which the 13-guinea prize would be available equally to Degree and college associateship students, whilst one of the 6-guinea prizes should be reserved for Degree students and the other for associateship students. The Prize would take the form of books to be awarded to the three most distinguished students in the third year of the chemical technology course.

Trustees of the late Sir Montague Burton : £100 towards the fund for needy students.

Professor A. E. Ritchie : 19 books and a collection of Scientific Reprints from the library of his father, the late Professor James Ritchie, and 148 volumes of Turkish Works from the National Library, Ankara.

Mrs J. C. Brash : a gift of books and journal from the library of her late husband, Professor Emeritus J. C. Brash, Professor of Anatomy.

The Institutional Mathematic Academic R.P.R. : gift of books.

The Family of the late Professor Andrew Seth Pringle-Pattison : Five Class Medals won by Professor Pringle-Pattison and two by his brother, Professor James Seth.

Mrs T. J. Mackie : Doctor's Gown belonging to the late Professor T. J. Mackie.

**PROGRAMME OF
ADMISSION TO THE UNIVERSITY
AND
GENERAL INFORMATION FOR STUDENTS**

The University Calendar

The *University Calendar* is published annually in September. The following sections are printed as separate pamphlets:—

Programme of Admission to the University and General
Information for Students
Faculty of Arts Programme
Faculty of Divinity Programme
Faculty of Law Programme
Faculty of Medicine Programme: Medicine
Faculty of Medicine Programme: Dental Surgery
Faculty of Medicine Programme: Veterinary Medicine and
Surgery
Faculty of Music Programme
Faculty of Science Programme
Programme of Special Study and Research
Programme of Entrance Bursaries

The Matriculation Office

The Matriculation and Registration Office is in the Old College, South Bridge, Edinburgh 8. Telephone No. Edinburgh 41001. Office hours:—10-1, 2-4, (Sat. 10-12) during Faculty of Arts terms and from end of summer term to day before last graduation ceremonial in July; 10-1 (closed on Sat.) during vacations (except period after end of summer term). At the Office students normally matriculate and enter for preliminary, degree, diploma and certificate examinations; for fellowships, scholarships, bursaries and prizes; and for graduation. Formal enrolment and payment of fees is also made at the office, except during the month of October. All communications regarding fees should be addressed to the Secretary to the University, The Old College, and all cheques for them should be in favour of the University of Edinburgh.

N.B. All communications requiring an answer should be accompanied by a stamped addressed envelope.

Academic Terms

Annus Academicus: 1st October to 30th September.

Autumn Term:

Faculty of Divinity, 8th October to 18th December.

Faculties of Arts, Law, Medicine, Music and Science, 13th October to 18th December.

Spring Term: All Faculties, 12th January to 18th March.

Summer Term: Faculty of Divinity (excluding ARTS classes in Arabic and Hebrew), 19th April to 20th May.

Faculty of Law, 12th April to 10th June.

Faculties of Arts, Music and Science, 19th April to 17th June.

Faculty of Medicine, 19th April to 24th June.

ADMISSION TO THE UNIVERSITY

The following pages explain how any person who wishes to study for any of the following primary degrees:—B.L., M.B., Ch.B., B.D.S., B.V.M. & S., M.A., B.Com., B.Arch., B.Sc., and B.Mus., may enter the University of Edinburgh. They prescribe:—

- I (A) The preliminary qualifications required of all students who wish to begin a curriculum leading to any of these degrees and how to obtain from the Scottish Universities Board a Certificate of Attestation of Fitness to enter upon such a curriculum.
- (B) The arrangements for application for admission to the University.
- (C) The additional qualifications necessary in order to obtain admission to certain classes.
- II (A) The procedure preliminary to matriculation.
- (B) How to matriculate.

Information regarding expenses, financial assistance, residences and lodgings will be found under General Information for Students.

I. ADMISSION TO A GRADUATION CURRICULUM

(A) Preliminary Qualifications and Attestation of Fitness

Every person who wishes to begin a curriculum leading to a degree or diploma in any Faculty for which a primary degree is not a pre-requisite,¹ must obtain a Certificate of Attestation of Fitness. A form of application for this Certificate may be obtained from the Matriculation Office, Old College, or from the Secretary, Scottish Universities Entrance Board, Westerlea, Kennedy Gardens, St Andrews. This form, duly filled in, must be sent, together with original certificates of attainment and a fee of £1 to the Secretary of the Board by whom Attestations of Fitness are issued.

The preliminary qualifications, that is to say, those required in order to obtain a Certificate of Attestation of Fitness, are laid down in the Board's Regulations under which applicants are classified as follows, according to their certificates of attainment:—

- I. Graduates, other than honorary, of any British or foreign university, and holders of certificates which the Board may accept as equivalent to a university degree.
- II. Holders of Leaving Certificates of the Scottish Education Department.

¹ A primary degree is a normal pre-requisite for the following degrees and diplomas, full details of which are given in the Programmes indicated:—

Degrees of: D.Litt., Ph.D., M.Sc. (Research)
D.Sc. (Research and Science)
M.D., Ch.M., M.D.S., D.V.M. & S. (Medicine)
D.Mus. (Music)
B.D. (Divinity)
LL.B., LL.D. (Law)
B.Ed., M.Arch. (Arts)

Diplomas in: Applied Linguistics, Clinical Psychology, Education, English Studies, Geography, Islamic Studies, General Linguistics, Palæography and Manuscript Studies, Phonetics, Social Anthropology, Social Study (Arts)
Administrative Law and Practice (Law)
Radiodiagnosis, Radiotherapy, Psychiatry, Public Health, Tropical Medicine and Hygiene, Tropical Veterinary Medicine, Veterinary State Medicine, Medical Services Administration (Medicine)
Animal Genetics, Applied Dynamics, Biology, Electronics and Radio, Forestry, Rural Science (Science)

The matriculation regulations for candidates for all degrees and diplomas are the same.

Admission to the University

- III. Applicants who hold certificates from outside Scotland which are recognised by the Board and have been awarded by examining bodies in:—
 - (i) Great Britain and Northern Ireland.
 - (ii) Countries beyond Great Britain and Northern Ireland.
- IV. Applicants from Scotland or from outside Scotland who have fulfilled tests administered by the Board; *i.e.*, the Scottish Universities Preliminary Examination.
- V. Applicants of not less than 23 years of age who can satisfy the Board that they have had a good general education.

Anyone in doubt about the interpretation of the regulations should obtain a ruling on his case from the Entrance Board, whose decision is final. Unless the Board's regulations contain a specific statement to the contrary or a special ruling has been given by the Board, an applicant's claim to Attestation will be decided in accordance with the regulations current at the time when his application is formally complete; that is to say, when he has presented the form of application with the fee due and all the educational certificates requisite to establish his claim. Forms of application for an Attestation of Fitness should be sent in **at the earliest possible date**, in order that those whose certificates of attainments prove to be inadequate may supplement them by a pass or passes in the Scottish Universities Preliminary examination or its equivalent.

The Board's Attestation of Fitness qualifies the holder to enter on a course of study leading to a Degree in any Faculty in any Scottish University; but (a) power is, by Ordinance No. LXX, reserved to the Senatus Academicus to determine with respect to any particular class the conditions under which attendance thereon shall qualify for graduation; (b) the Senatus may, on special cause shown, permit a student to count as qualifying for graduation his attendance, before he has obtained the Board's Attestation, on any course, on condition of his obtaining that Certificate within such time after the attendance as the Senatus may appoint; and (c) students may attend classes without having obtained the Board's Attestation, but such attendance shall not qualify for graduation. This privilege, referred to under (b) above, can be granted before or after the student has attended the qualifying course; if he requests it before attending, he should apply through his Director of Studies to the Dean of the Faculty before the beginning of the session.

(b) Admission to the University

Applicants for the Certificate of Attestation of Fitness are warned that although possession of the Certificate is a **necessary** pre-requisite for admission to the University, it may not be **sufficient** to secure admission. Actual admission depends *inter alia* on the possession of the specific educational qualifications that fit applicants for the particular Faculty or curriculum within a Faculty which they desire to enter. They are therefore advised, if they are in any doubt, to ascertain from the Dean of the Faculty in what subjects and by what standards they should obtain passes to satisfy its requirements and so far as possible to include them in the Certificates which they submit in support of their applications for Attestation. Otherwise successful applicants admitted to the Faculties of Arts, Law and Science may later find that preparing for a Preliminary examination interferes with their university work.

Arts, Law and Science.—Prospective entrants must apply for admission to the proper Faculty, by 31st May in the case of Arts and Science, and by 1st September in the case of Law, on forms to be obtained from the Matriculation Office, Old College.

Music.—Prospective entrants who wish to enter for the Qualifying Examination held in June prior to attendance at classes must apply for admission by 1st April on forms to be obtained from the Faculty of Music.

Medicine

(1) *Application for Admission.*—Prospective entrants must apply for admission to the Faculty on the prescribed form obtainable as follows:—For admission to the M.B., Ch.B., and B.D.S. Courses—from The Dean of the Faculty of Medicine, University New Buildings, Teviot Place, Edinburgh, 8. For admission to the B.V.M. & S. Course—from The Director, Royal (Dick) School of Veterinary Studies, Summerhall, Edinburgh, 9.

British applicants for admission in October should lodge their applications, completed as far as possible, by 31st December of the year prior to that in which entry is desired. Applicants for admission of other than British nationality must apply by the same date and pay a fee of 10s. 6d., returnable when admission has been definitely granted; they are also required to submit, along with their form of admission, a letter of recommendation from a responsible official or head of the college at which they have been educated, and a transcript of their record.

On account of the large number of applications for entry to the M.B., Ch.B. course a selection is made; certain applicants are called for interview, usually during the Easter vacation, and are required to pay their own travelling expenses. Successful candidates are normally admitted to the first year of the medical curriculum.

(2) *Exemption from First Professional Examination.*—Exemption from the First Professional M.B., Ch.B., B.D.S. or B.V.M. & S. Examination in Physics, Chemistry and Biology is *not* given on the basis of examinations passed in school, technical or other training colleges. The University, however, has power to admit accepted and provisionally accepted candidates direct from school to the First Professional Examination, in part or in whole, subject to production of the following documents before the dates of the examination in mid-September:—

(i) Certificate of Attestation of Fitness issued by the Scottish Universities Entrance Board at St Andrews

and

either (ii) Certificate of passes at advanced level in Chemistry and/or Physics and/or Biology (or Botany and Zoology) in the General Certificate of Education Examination of any of the undernoted examining bodies:—

The Oxford and Cambridge Schools Examination Board

The Oxford Local Examinations Delegacy

The University of Durham School Examinations Board

The Cambridge Local Examinations Syndicate

The Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham Joint Matriculation Board

The Welsh Joint Education Committee

The Southern Universities Joint Board for School Examinations

The University of London Entrance and School Examinations Council.

or (iii) Certification by the Headmaster of the School attended of having undertaken satisfactorily an approved course of advanced instruction in Chemistry and/or Physics and/or Biology for one year subsequent to passing the Scottish Leaving Certificate Examination at the Higher Standard in Science, *i.e.* in Chemistry and/or Physics and/or Botany and Zoology.

Candidates who pass in all three subjects of the First Professional Examination will be given direct admission to the *second year* of the curriculum in October. Those who pass in fewer than three subjects will be given exemption in the subject or subjects which they have passed but, before proceeding to the second year, will be required to complete the first year of the curriculum in the subject or subjects in which they have still to obtain a pass.

Admission to the University

The Examination will comprise written papers each of two hours' duration for Physics and Biology, and two and a half hours for Chemistry with practical and/or oral examinations in addition.

(3) *Exemption from Pre-clinical Subjects.*—Exemption from attendance at courses of instruction and examinations in pre-clinical subjects (*i.e.* up to and including the subjects of Anatomy, Physiology and Biochemistry) may be granted in certain circumstances to applicants producing satisfactory evidence of having completed attendance at classes and examinations in these subjects in another University recognised and approved by the University of Edinburgh.

Male applicants of recruitable age on notification of acceptance into the Medical School are normally granted deferment of National Service by the University Joint Recruiting Board. Continuance of deferment is conditional on satisfactory progress being maintained.

(c) Special Entrance Qualifications for Particular Classes

(1) Degrees in Arts¹ and Commerce

There are four Types of curriculum for the ORDINARY M.A. DEGREE (see Faculty of Arts Programme). Each of these includes certain obligatory classes or combinations of classes, for which, as stated below, there are special entrance conditions—in most cases a pass on the higher standard in the Leaving Certificate, or the Preliminary examination (or other examination recognised as equivalent) in the subject of the class itself, or in another subject necessary for its study. (Passes "with credit" in English School Certificate examinations are not accepted as equivalent to passes in the same subject on the higher standard in the Leaving Certificate, or the Preliminary examinations. A pass in the Higher School Certificate examinations, or in the English General Certificate of Education, when the subject in question has been passed as a "principal subject" or on the advanced level, respectively, is accepted.)

It is highly desirable that Ordinary students when they begin their curriculum should have among their entrance qualifications passes in (a) English, and (b) two of the following on the higher standard:—Celtic, French, German, Greek, Italian, Latin, Mathematics, Russian, Spanish. A pass in English is not absolutely obligatory; but it is obviously undesirable that a student who is below this standard in English should attempt an Arts curriculum.

In certain of the HONOURS GROUPS (*e.g.* Mental Philosophy and Economic Science) it is possible to complete the necessary curriculum without including any class for which a special entrance qualification is required. But many students who begin these Honours curricula transfer to one of the Types for an Ordinary degree, and may find themselves without the qualifications for certain obligatory classes. It is, moreover, obviously desirable that Honours students, who are *ex hypothesi* of more than the average quality, should possess an entrance qualification at least as good as that for the Ordinary degree.

All B.Com. students must include in their curricula Accounting and Business Method and a modern foreign language (English may be substituted by students whose native language is not English), and may include Chemistry, Mathematics, and Natural Philosophy, for all of which subjects special entrance qualifications are required.

The special entrance qualifications for particular classes or Honours Groups in the Faculty of Arts are as follows:—

ENGLISH: SECOND ORDINARY AND HONOURS CLASSES.—A pass in Latin on the lower standard at least (or the higher for the Honours classes) in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. Students proceeding to Honours in English should have a reading

¹ Prospective ministers of the Church of Scotland, teachers and lawyers should consult "Advice on the Choice of Curricula," in Faculty of Arts Programme.

Admission to Grad. Curriculum

knowledge of at least one modern foreign language; for those specialising in Literature or Mediæval Studies, preferably French, and, in Language, preferably German.

CELTIC, FRENCH, GERMAN, GREEK, ITALIAN, LATIN, RUSSIAN, SPANISH AND ICELANDIC: ORDINARY CLASSES.—A pass in the language on the higher standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency, which will, if necessary, be tested by an examination in the first week of the autumn term. Admission will be granted to those holding passes in the various languages in the Oxford and Cambridge, or the Northern Universities, Higher Certificate; or in the English General Certificate of Education on the advanced level. There are University classes in Elementary Celtic, Elementary Greek, Elementary Italian, Elementary Russian, Elementary Spanish, and Elementary Icelandic (see Faculty of Arts Programme).

FRENCH, ITALIAN, AND SPANISH: INTERMEDIATE AND HONOURS CLASSES.—A pass in Latin on at least the lower standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. Students proceeding to Honours in Spanish must have a reading knowledge of French. Students proceeding to Honours in French Language and Literature must have a pass in Latin on the higher standard.

SANSKRIT.—A knowledge of Sanskrit grammar (as in Macdonell's *Sanskrit Grammar for Students*) and ability to read simple texts. There is a University class in Elementary Sanskrit (see Faculty of Arts Programme).

HEBREW.—A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the *Book of Ruth*, or the narratives of *Genesis*. There are University classes in Elementary and Junior Hebrew (see Faculty of Arts Programme).

ARABIC, PERSIAN, TURKISH, AND URDU: ORDINARY CLASSES.—A knowledge of the grammar of the language and ability to read a simple text. There are University classes in Elementary Arabic, Elementary Persian, Elementary Turkish, Elementary Urdu and Elementary Hindi (see Faculty of Arts Programme).

MUSIC.—A pass in Music in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency.

SOCIAL ANTHROPOLOGY: HONOURS.—A pass in Mathematics on the lower standard in the Leaving Certificate of the Scottish Education Department or some equivalent evidence of proficiency.

MATHEMATICS.—For students entering the First Ordinary class (in the Faculty of Arts), a pass in Mathematics on the lower standard in the Leaving Certificate of the Scottish Education Department, or its equivalent, is required. For those proceeding directly to the Second Ordinary class (Mathematics I in the Faculty of Science), a pass in Mathematics on the higher standard, or its equivalent, is required.

TECHNICAL MATHEMATICS.—A pass in Mathematics on the higher standard in the Leaving Certificate of the Scottish Education Department or other satisfactory evidence of proficiency.

MATHEMATICAL PHYSICS.—A pass in Mathematics on the higher standard in the Leaving Certificate of the Scottish Education Department or other satisfactory evidence of proficiency.

Admission to the University

NATURAL PHILOSOPHY (PHYSICS).—For students entering the First Ordinary Class (in the Faculty of Arts) a pass in Mathematics on the lower standard in the Scottish Leaving Certificate, or its equivalent, is required. For those proceeding to higher courses, a pass in Mathematics on the higher standard, or its equivalent is required.

METEOROLOGY.—An elementary knowledge of mechanics, general physics and heat.

ASTRONOMY.—A knowledge of Mathematics as represented by the First Ordinary Course in Mathematics, and of Dynamics as represented by the Preliminary Examination.

CHEMISTRY.—A pass on the higher standard in Science (including Chemistry) in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency, or a pass in Chemistry at the required standard in the Preliminary Examination of the Scottish Universities Entrance Board.

ANCIENT (GREEK AND ROMAN) HISTORY, CIVIL (ROMAN) LAW, AND ECCLESIASTICAL HISTORY: ORDINARY CLASSES. EUROPEAN HISTORY HONOURS I AND II, BRITISH HISTORY HONOURS I AND SCOTTISH HISTORY HONOURS CLASSES.—A pass in Latin at least on the lower standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. Students proceeding to Honours in History must have at least a reading knowledge of French.

FINE ART: HONOURS.—A reading knowledge of at least one modern foreign European language. Applicants for entry upon the curriculum must pass an entrance test prescribed by the College of Art.

ARCHAEOLOGY: HONOURS.—A pass on the higher standard in a classical or modern foreign language.

ARCHITECTURE: For the particular entrance requirements for the classes of Architectural Design, Structural Design IV, and History and Theory of Architecture II see Faculty of Arts Programme, Department of Architecture.

ACCOUNTING AND BUSINESS METHOD.—Either (a) a pass in the elementary class examination (see Faculty of Arts Programme); or (b) a pass in an admission examination in Book-keeping (16th September 1959 (2-4) entries to be made at the Matriculation Office by 25th August; 14th September 1960 (2-4) entries by 23rd August); or (c) sufficient practical training in an office or elsewhere (applications for exemption in virtue of (c) to be made at the Matriculation Office by 31st August).

(2) *Degrees in Law*

A pass in Latin at least on the lower standard in the Leaving Certificate of the Scottish Education Department (or some equivalent evidence of proficiency) is required for admission to the Civil (Roman) Law class, which is a necessary part of the LL.B. and the B.L. curricula.

(3) *Degrees in Medicine, Dental Surgery and Veterinary Medicine and Surgery*

Prospective entrants must be at least 17 years of age on or before the opening date of the Academic Session in which entry is desired; they must have obtained the Certificate of Attestation of Fitness and where this is to be gained without examination in Physics and Chemistry, they are advised to include these subjects in their school or pre-university studies.

(4) *Degrees in Music*

As part of a normal minimum qualification for admission to the curriculum for the Ordinary degree of B.Mus., entrants should have obtained a pass in Music on the higher standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. It is desirable that, in preparation for entrance upon the course for this professional degree, the study of Harmony and Ear Training in particular shall have been pursued for a longer period and to a higher standard than the minimum requirements of the Leaving Certificate. Applicants who in their practical work have specialised primarily in an instrument other than the pianoforte or in singing will be required to provide evidence that they have also attained reasonable proficiency in playing at sight upon the pianoforte.

Applicants may be asked to attend for interview.

Applicants who aim at taking the Qualifying Examination in June or September before entering upon any part of the degree curriculum should consult the Regulations (VI) and Additional Regulations for the Ordinary Degree of B.Mus. (see Faculty of Music Programme).

Applicants who aim at taking the degree with Honours in History of Music should note the language qualifications required, especially in French or German (see Faculty Programme). They are advised to have amongst their entrance qualifications a pass on the higher standard in one of these two languages.

(5) *Degrees in Science*

For admission to degree courses in Pure Science or in Applied Science (*i.e.* in Agriculture, Engineering, Forestry, Mining, and Chemical Technology) entrants should have attained, as part of a normal minimum qualification, passes in Mathematics, Physics and Chemistry on the higher standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. In exceptional cases, for admission to degree courses in Pure Science, the requirement of Higher Physics and Chemistry may be relaxed provided outstanding qualifications are offered in other subjects.

Besides the above general requirements for admission to degree courses, entrance qualifications as for graduation in Arts are required for the following classes: Astronomy, Chemistry, and Meteorology.

Before admission to the graduation curriculum in Agriculture an entrant must provide evidence to the satisfaction of the Director of Studies in Agriculture that he has spent a complete twelve months covering the four seasons on an approved farm.

II. MATRICULATION AND OTHER PRELIMINARIES

(A) *Procedure Preliminary to Matriculation*

Procedure in Faculties

ARTS (AND COMMERCE), LAW, AND SCIENCE.—An entrant to the University who has obtained his Attestation of Fitness and has, if necessary, supplemented his general entrance qualifications in order also to qualify for entrance to particular classes, and has been accepted for admission to the proper Faculty, must consult the appropriate Director of Studies during the advertised hours (for Arts and Commerce, see Faculty of Arts Programme; for Law, Faculty of Law Programme; and for Science, Faculty of Science Programme). Thereafter he must matriculate and pay his annual fee during the month of October. Students in their second or subsequent years in Arts (or Commerce), Law or Science must also consult their Directors of Studies during the advertised hours.

Admission to the University

They must matriculate and pay their annual fees during the month of October. The detailed arrangements for payment of annual and matriculation fees are given in the Faculty Programmes.

DIVINITY.—Entrants who have obtained an Attestation of Fitness and students in the Faculty in their second or subsequent years require to matriculate and pay their annual fees during the month of October. The detailed arrangements for the payment of fees are given in the Faculty Programme.

MEDICINE.—Every prospective Medical, Dental or Veterinary student having obtained an Attestation of Fitness, and having been accepted for admission to the Faculty must report at the Dean's Office at the opening of the autumn term to obtain the necessary permit to matriculate. In subsequent years he must report at the Dean's Office at the same time and for the same purpose. Thereafter he must matriculate and pay his annual fee during the month of October. The detailed arrangements for the payment of fees are given in the respective Faculty Programmes.

MUSIC.—Entrants who have obtained an Attestation of Fitness and who have been accepted for admission to the Faculty in October, and students in the Faculty in their second or subsequent years require to matriculate and pay their annual fees during the month of October.

An entrant who has obtained a Certificate of Acceptance (or provisional acceptance) for admission to the Faculty, authorising him to enter his name as a candidate for the Qualifying Examination in June or September prior to his entering upon any part of the curriculum of studies, must matriculate (paying the matriculation fee) when entering his name for that examination at the Matriculation Office on or before the respective date advertised for receiving entries. Detailed arrangements regarding the paying of fees are given in the Faculty Programme.

Medical Examination.—Every entrant to the University is required, before matriculation, to undergo radiological examination of the chest. The necessary facilities for examination will be provided. If for any reason objection is taken to the examination, a letter of application for exemption should be sent as early as possible in the session to the Secretary to the University.

(B) Matriculation

Matriculation consists of signing the Sponsio Academica and paying the fee of £2, 12s. 6d. No one may attend a class, except those mentioned under "Non-graduation and Non-matriculated Students" below, without matriculating and no one shall be deemed to be fully matriculated or shall enjoy any of the privileges of membership of the University unless he is also enrolled as attending one or more classes and has paid the fees entitling him to such attendance.

Students matriculating for purposes of graduation or examination are required to complete Matriculation Form A only and to pay the matriculation fee of £2, 12s. 6d.

The *Sponsio Academica* at matriculation is:—"Ego Vniuersitatis Academicæ Edinburgensis discipulus sincere ac sancte promitto, quod et syngraphâ hac meâ in perpetuum testatum cupio, me in academici curriculi studiis pium et sedulum fore; quo promisso assentior, quod ad doctrinam disciplinamque Vniuersitatis pertineat, me in omni re Senatus Academici iurisdictioni libenter memet subiecisse, cognitumque me habere, si eius iudicio uel studiis uel uitae moribus parum profecerim, fore ut Senatui liceat me prohibere quominus curricula ad gradum attingendum proposita persequar; et profiteor bene me

Matriculation and other Preliminaries

meritum alumnus bene merenti Vniuersitati meae gratum et beneuolum animum pro mea facultate per reliquam uitam officiis omnibus praestitutum esse.”¹

Discipline.—All students are subject to the disciplinary jurisdiction of the Senatus. Among offences visited with severe academic penalties are riotous and disorderly conduct, copying at examinations, and mutilation or disfigurement of books belonging to the Library.

Non-graduation and Non-matriculated Students

Non-graduation Students

Students who do not propose to graduate may attend, as non-graduation students, any class, except those in the Faculty of Medicine, and provided they have been accepted for admission to it, on paying the matriculation fee of £2, 12s. 6d. and the appropriate tuition fees.

Non-matriculated Students

Non-matriculated students are admitted to certain classes specified in the tables of courses in the Faculty Programmes on the payment of an entry fee of £1 and the fees of the individual classes taken—£5, £8, £10 for classes of one, two and three terms respectively, or £5 for a two- or three-term class which meets on fewer than thirty occasions. Such attendance does not qualify for graduation, or entitle a student to a class certificate or confer any other University privilege.

¹ TRANSLATION:—“ I, student of the University of Edinburgh, do give my sincere and sacred promise, and wish this my signature to testify thereto for ever, that I will be dutiful and industrious in my studies; and by this promise I acknowledge that in all matters relating to the teaching and discipline of the University I have willingly placed myself under the jurisdiction of the Senatus Academicus, and I recognise that if, in the opinion of the Senatus, my studies or my conduct are unsatisfactory, it has authority to forbid my continuance upon courses qualifying for a degree; and I engage that as a deserving alumnus of my University I will pay my debt of gratitude and goodwill on every occasion to the best of my powers, so long as I live.”

Admission to the University

REGULATIONS FOR ADMISSION ISSUED BY THE SCOTTISH UNIVERSITIES ENTRANCE BOARD

I. University Graduates

An applicant who holds an approved degree awarded by a British or overseas¹ university recognised by the Board will receive the Attestation of Fitness on sending to the Secretary of the Board the prescribed form of application, the diploma showing that he holds such a degree, and the fee of £1. If for any good reason the diploma cannot be sent the Board may accept instead a statement signed by the registrar of the university confirming that the applicant has been granted a specified degree of that university and that the degree is not an honorary degree. Applications to have a certificate recognised as the equivalent of a university degree will be considered by the Board on their merits.

II. Applicants Presenting Scottish Leaving Certificates

The rules in this section prescribe the conditions upon which passes in the Scottish Leaving Certificate Examination will be accepted as qualifying for the Board's Attestation of Fitness; but passes awarded in 1949 or earlier in the Senior Leaving Certificate Examination of the Scottish Education Department will count equally with passes obtained in this examination: provided that a pass in any subject entered on a Certificate awarded in the years 1940-45 inclusive shall qualify only if the Board is satisfied, on evidence furnished by the Scottish Education Department, that the applicant has reached an adequate standard of attainment in that subject.

Rule 1. Passes shown on a Scottish Leaving Certificate awarded at the end of the fifth, or subsequent, year of the Secondary course shall be accepted as qualifying for the Board's Attestation of Fitness, if they satisfy in respect of subjects, numbers and standards of pass, and sessions of examination, the conditions set out in the Rules 2, 3 and 4.

Rule 2. The subjects which are recognised as qualifying are the following :—

Group I—Higher English; History; Geography.

Group II—Mathematics; Science (any two of Physics, Chemistry, Botany, Zoology); Additional Mathematics (*i.e.* passes at one session in two of the three papers, Dynamics, Geometry, Elementary Analysis). *Note.*—A candidate who passes in all four branches of Science will be deemed to have passed (a) in two subjects on the higher standard if his four passes are all on that standard; (b) in two subjects on the lower standard if his four passes are all on that standard. A candidate may offer only two branches of Science on the lower standard at one session of the examination; (c) in two subjects, one on the lower standard and one on the higher standard, if two of his four passes are on the lower standard and the other two on the higher.

Group III—Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian.

Group IV—Higher Art; Higher Music; Higher Technical Subjects; Physics-with-Engineering. *Note.*—A pass in Physics-with-Engineering will not be accepted together with a pass in Technical Subjects, nor with a pass in Science, Higher or Lower, which includes Physics. A pass in Physics-with-Engineering will be regarded as a pass on the higher standard in a subject of Group II if it is supplemented by satisfactory performance in any one of Chemistry, Botany, Zoology, taken on the higher standard either at the same session of the examination or consistently with rule 4 below.

¹ A graduate of an overseas university who has received an Attestation of Fitness and who proposes to study for a degree or a diploma in the University must satisfy his Director of Studies that he has an adequate knowledge of English.

Rule 3. (a) There must be at least four passes on the higher standard or three on the higher and two on the lower standard; (b) there must be higher passes in English and in two other subjects chosen from Groups II and/or III; (c) there must be at least one pass in a Group II subject and at least one pass in a Group III subject; (d) if there is no pass on the higher standard in a Group III subject there must be a pass in higher mathematics; (e) subject to the exception in the Note below Group II, it is not permitted to reckon among the required passes both a higher and a lower standard pass in the same subject.

Rule 4. All the requisite passes must have been gained at not more than two separate sessions of this examination: provided that a pass in one subject on the lower grade gained in a year prior to that of the award of the Certificate itself shall be deemed to have been gained in the year of the award of the Certificate. A pass, however, gained in a year subsequent to the year of award and endorsed on the Certificate shall count as gained at an additional session.

Rule 5. If the original Scottish Leaving Certificate falls short of the Board's requirements under the preceding rules, it may be made good by passes in the requisite subjects on the requisite standards obtained (a) at one session of the Scottish Leaving Certificate Examination and endorsed on the original Certificate, or (b) at any one session of the Scottish Universities Preliminary Examination.

Rule 6. The Board will recognise no pass recorded on a "fourth year" Scottish Leaving Certificate except (a) the pass allowed to stand and entered by the Department on his "fifth year" Leaving Certificate if the pupil returns to School; or (b) if he has not returned, one pass in a subject of either Group II or Group III at the Board's discretion.

III. Applicants whose Fitness is Attested by Certificates awarded by Examining Bodies other than the Scottish Education Department

The Board's rules made under this Section are divided into two parts—Part A dealing with Certificates awarded by the named Universities and Examining Boards situated within Great Britain and Northern Ireland, and Part B with Certificates awarded by Universities and Examining Bodies recognised by the Board and situated elsewhere.

Procedural Note.—All applications must be made on a special form obtainable from the Board's Office and accompanied (a) by the fee of £1 sterling levied for the scrutiny of applications and (b) by the certificate or certificates on which the applicant relies to make good his claim to the Board's Attestation of Fitness.

Notes.—(1) Original Matriculation, Leaving, or other qualifying certificates must be presented in support of all applications, or, failing them, statements of their contents signed by the original issuing authority.

(2) All original certificates expressed in a language other than English must be accompanied by a translation certified by the Registrar of the issuing University if they are University Certificates, or by an official of the State Education Department if they are Certificates qualifying for University entrance.

PART A. GREAT BRITAIN AND NORTHERN IRELAND

General Certificate of Education

Rule I. The Scottish Universities Entrance Board recognises to the extent specified below passes in this Examination awarded by any of the Examining Bodies named below in respect of the subjects (arranged in Groups) which follow:—Oxford Local Examinations Delegacy; Cambridge Local Examinations Syndicate; Oxford and Cambridge Schools Examination Board; Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham; University of London; Southern Universities Joint

Admission to the University

Board; University of Durham School Examinations Board; Welsh Joint Education Committee (formerly Central Welsh Board):—

Group I.—English Language; English Literature; Geography; Ancient History; Modern History.

Group II.—1. Mathematics (Pure); 2. Applied Mathematics (Theoretical Mechanics); 3. Physics; 4. Chemistry; 5. Botany; 6. Zoology; 7. Geology; 8. Physics-with-Chemistry; 9. Biology; 10. General Science. *Note*—No. 8 does not count if either of Nos. 3 or 4 is offered. No. 9 does not count if either of Nos. 5 or 6 is offered. No. 10 does not count if any one of Nos. 3 to 9 is offered and it will not in any event count as more than one subject.

Group III.—Latin; Greek; French; German; Spanish; Italian; Gaelic; Welsh; Irish; Russian; Hebrew; and such other language as may from time to time be approved by the Scottish Universities Entrance Board (see Appendix, p. 17).

Group IV.—Art and Music.

Rule II. The Certificate of Attestation will be granted, subject to the conditions specified below, to an applicant presenting the following qualifications contained in Certificates awarded by one or more of the Examining Bodies named above:

Either

Clause A: Passes in Six subjects (gained at any number of sittings) which include:—(i) English Language; (ii) either Mathematics or a recognised Science; (iii) a recognised language other than English; (iv) at least Two subjects passed at the advanced level, of which one must be a subject classified under Group II or Group III of Rule I (above): provided that (1) the required subjects are selected from those set out in Rule I; and (2) no subject may be counted both at the ordinary and at the advanced level.

Or

Clause B: Passes in FIVE subjects which include:—(i) English Language; (ii) either Mathematics or a recognised Science; (iii) a recognised language other than English; (iv) at least THREE subjects passed at the advanced level, of which one must be a subject classified under Group II or Group III of Rule I (above), and the three from not fewer than Two groups: provided that (1) the required subjects are selected from those set out in Rule I; (2) no subject may be counted both at the ordinary and at the advanced level; and (3) three passes have been gained at one and the same sitting, of which two must be at the advanced level and the three from not fewer than two separate Groups.

Explanatory Note.—An applicant presenting a General Certificate of Education is required to qualify entirely by passes in that Examination and may not supplement such passes by, or substitute for them, passes in the Scottish Universities Preliminary Examination. The one exception is contained in the second option under Clause C below; but this option is open only to those who have the qualifications for matriculation at a University other than the University of Oxford or the University of Cambridge, located in England and Wales, and have qualified for Matriculation in subjects recognised by this Board.

Clause C: Passes which collectively satisfy the conditions set out in Clause A or Clause B above in all respects other than:—(1) under either Clause the absence of a pass at the advanced level in a subject of Group II or Group III; or (2) under Clause B the absence of a third pass at the advanced level—may be supplemented by a pass in an appropriate subject gained *either* (i) at the advanced level in a subsequent General Certificate of Education examination; or (ii) on the higher standard in the Scottish Universities Preliminary, or Leaving Certificate Examinations.

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Rule III. TRANSITIONAL AND SPECIAL PROVISIONS.—An applicant who presents official evidence of any of the following qualifications awarded in the subjects of Rule I by any of the Examining Bodies named therein may count towards his Attestation under Rule II:—(a) in lieu of a pass in the corresponding subject at the ordinary level:—(i) a very good pass or a pass with credit obtained in a School Certificate examination including the West African School Certificate and Sudan School Certificate examinations; (ii) a pass in a subsidiary subject (or at subsidiary standard) obtained in a Higher School Certificate examination; (iii) a pass at ordinary standard in a London Matriculation examination; (iv) a very good pass or a pass with credit obtained in the Senior School Certificate examination or the General Certificate of Education examination of the Education Department of the Dominion of Ceylon; or, a pass obtained in the Higher School Certificate examination of the Education Department of the Dominion of Ceylon; (v) a pass at the ordinary level, or at the advanced level, in the matriculation examination of the University of Hong Kong; (b) in lieu of a pass at the advanced level:— (i) a pass at main or principal standard obtained in a Higher School Certificate examination; (ii) a pass in the Intermediate Arts or Science Examination of London University, including a pass gained under the Special Relationship Scheme at a Colonial University or College. *Note.*— This rule gives recognition to very good passes or passes with credit obtained in the Cambridge Oversea School Certificate Examination and to passes at Main or Principal Standard obtained in the Cambridge Oversea Higher School Certificate Examination from 1951 onwards.

Other Recognised Examinations

Rule IV. SENIOR CERTIFICATES OF THE MINISTRY OF EDUCATION OF NORTHERN IRELAND.— (I) A Senior Certificate awarded in 1952 or later will qualify for the Board's Certificate of Attestation if:— (1) passes in at least six subjects recognised by the Board appear on the Certificate originally or by endorsement. (*Note:* The Board does not recognise Geometrical Drawing or Domestic Science and it will count Botany and Biology as alternative subjects); (2) these passes include passes in (i) English Language; (ii) English Literature; (iii) a language other than English; (iv) a Mathematical or Scientific subject. (*Note:* The Board will not count Geography as a Scientific subject); (3) at least three of the passes are at the advanced level, and one of these three is a pass *either* in a language other than English *or* in a Mathematical or Scientific subject; and (4) the six requisite passes have been gained at not more than two separate sessions of examination. (II) A Senior Certificate gained at one session of examination may be supplemented by a pass or passes gained at one session of the Matriculation Examination of The Queen's University (Belfast): a pass in this examination will count as the equivalent of a pass at the advanced level in a certificate of 1952 or later year.

Rule V. An applicant who has passed at not more than two sittings the Matriculation Examination of The Queen's University of Belfast in English, Mathematics, a language other than English and in two other subjects included in the Groups of Rule I of this Part qualifies for Attestation.

General

Rule VI. Unless the applicant is fully qualified for Attestation in terms of Rules I-III or Rule IV or Rule V of this Part, he must pass the full Preliminary Examination of the Scottish Universities.

Rule VII. The Scottish Universities Entrance Board reserves the right to refuse to recognise certificates gained under the war or emergency regulations of other Universities or Examining Boards.

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PART B. COUNTRIES BEYOND GREAT BRITAIN AND NORTHERN IRELAND

Qualifications required of applicants presenting certificates awarded by a University or Examining Body recognised by the Board and located outside Great Britain and Northern Ireland:—

Either

I. An approved degree (other than honorary) of a University recognised by the Board;

Or

II. Such passes as satisfy the Rules in Part A of this Section of these Regulations;

Or

III. Such passes in the Scottish Universities Preliminary Examination as satisfy the Rules in Section IV of these Regulations;

Or

IV. (a) Passes at 50 per cent., or better, in the subjects of Rule I of Part A of this Section (p. 13) appearing on a certificate qualifying the applicant for entry on a degree course in Arts, Pure Science or Medicine at a recognised University of the Republic of Ireland, Canada, Australia, New Zealand, Tasmania or the Union of South Africa count:—(1) as passes at the ordinary level towards satisfying Clause A or B of Rule II of Part A if the holder completes his qualification by the General Certificate of Education Examination; or (2) as passes on the lower standard, if the holder completes his qualification under the rules of the Scottish Universities Preliminary Examination (pp. 18-19) at any one session of that Examination. (b) Alternatively a Certificate signed by the Registrar of a recognised University in one of these countries that the applicant has completed satisfactorily the first two years of a course leading to a degree in Arts, Pure Science or Medicine and has duly passed in all the subjects of his course up to that point. (*Note*.—The Board will not consider applications from persons who have failed to pass all the relevant examinations of the first two years of an approved Degree Course, unless they can demonstrate that their failure is attributable to special circumstances, *e.g.*, prolonged illness. In all such cases, applicants must submit full details accompanied by appropriate official evidence.)

Or

V. Evidence of the satisfactory completion of the second year of a course leading to a degree in Arts or Pure Science, or of the pre-medical course, of a University or College in the U.S.A. (other than a Junior College) appearing in the Current List published by the American National Committee of Regional Accrediting Agencies, on condition that the applicant's academic record shows Grades averaging not below B in such of the following subjects as have been included in the first two years of his academic course:—English, Foreign Languages, Mathematics (Pure and Applied), Science, History, Geography, Art, and Music ;

Or

VI. A School Leaving, Matriculation, or University Entrance, Certificate awarded in any one of the countries named below and qualifying unconditionally for entrance on a course leading to a degree in Arts, Medicine or Pure Science in a recognised University of that or an adjacent country is acceptable:—(a) if it contains passes of satisfactory (or higher) grade in six of the subjects mentioned in Rule I of Part A of this Section, and these include (1) the language of the country issuing the Certificate; (2) a second recognised language ; and (3) either Mathematics or a recognised Science, all three gained in the written examination (*Notes*: If the certificate does not indicate by "Grades" the

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quality of all the requisite passes, it must be supplemented by official evidence from the issuing authority detailing the percentage awarded in each subject included therein. A percentage of 50-64 will be reckoned as equivalent to the Grade "Satisfactory", and of 65 or over to the Grade "Very Satisfactory". If the certificate shows separately passes in the same subject gained in written and in practical or oral examinations, the requisite grade must have been attained in both parts. If "English" in such a certificate includes both language and literature, or "Physical Science" both Physics and Chemistry, a pass in either of these combined subjects counts as a pass in two subjects; (b) if at least two of these passes (which must include a pass gained in the written examination in English or in a subject of Group II or Group III on p. 14) are graded as "Very Satisfactory": (c) on condition that it is supplemented by (1) a London University, or Cambridge Certificate of Proficiency in English, or (2) a pass in Special English in the Board's own Preliminary Examination; provided that exemption from this condition will be granted if the Grade "Very Satisfactory" has been awarded in English (written and oral); (d) a certificate that fails to satisfy Clauses (a) and (b) of this Rule for want of a sixth subject, or in respect of the grade of pass required in one subject only, may be made good by a pass of the requisite standard in an appropriate subject obtained either (1) in a subsequent session of the original examination, or (2) in the Scottish Universities Preliminary Examination, in which the pass must be on the higher standard; or (3) in the English General Certificate of Education Examination, in which the pass must be at the advanced level. The countries are:—Norway, Sweden, Denmark, Iceland, Finland, Holland, Belgium, France, Luxembourg, Switzerland, Western Germany, Italy, Spain and Portugal.

Procedural Rule (applying to paragraphs IV (a) and VI).—Unless the Certificate not only details the subjects in which passes have been awarded, and the standards of these passes, but also testifies to the holder's unconditional admissibility to a course leading to a degree in Arts or Pure Science or Medicine in a recognised University, it must be accompanied by a certified statement giving these particulars signed by the Registrar of the issuing University or the Secretary of the Matriculation Board that controls entrance to that University; or, if it is a Leaving Certificate, by the Director of the State Education Department.

VII. The Board may at its discretion attest an applicant whose qualifications do not fulfil precisely any one of the above paragraphs, if it is satisfied that his educational attainments as a whole are not inferior to those required by the Rules of this Part.

Appendix to Section III: List of recognised Languages

Latin, Greek, French, German, Italian, Spanish, Gaelic, Hebrew, Russian; and in addition the following languages¹:—Afrikaans, Amharic, Arabic, Armenian, Bemba, Bengali, Burmese, Chinese, Czech, Danish, Dutch, Efik, Ewe, Fanti, Ga, Ganda (or Luganda), Modern Greek, Gujarati, Hausa, Hindi, Hungarian, Ibo (or Igbo), Icelandic, Irish, Japanese, Kanarese, Malay, Malayalam, Marathi, Norwegian, Oriya, Pali, Persian, Polish, Portuguese, Punjabi, Roumanian, Sanskrit, Serbian, Siamese, Sindhi, Sinhalese, Southern Sotho, Swahili, Swedish, Tamil, Telugu, Turkish, Twi, Urdu, Welsh, Yoruba.

IV. Applicants who Qualify by having fulfilled Tests Administered by the Board, i.e., the Scottish Universities Preliminary Examination

To provide for those who do not qualify for Attestation in terms of the rules contained in Sections I, II or III of these Regulations, a Preliminary Examination is held twice in the year at the seats of the four Scottish Universities; and, on timely application, at Lerwick, Kirkwall, Stornoway, Portree, Inverness and Wick.

¹ Candidates entering for these languages must lodge their applications by the dates indicated on p. 28.

Admission to the University

Procedural Note.—Candidates for any session of the Preliminary Examination must write to the Secretary of the University at or through which they propose to take the examination and not to the Secretary of the Entrance Board, to obtain an entry form for the examination and return it to the University, along with the examination fee, before the final date for receiving entry forms shown on p. 28. Statements of passes, which are issued by the University to the candidates shortly after the date of the Board's meeting, should be sent to the Entrance Board along with the form of application for Attestation, if not already lodged, only if the candidate has reason to believe that his qualifications for Attestation are now complete.

The Autumn session of this Examination is open to all. The Spring session is open to all except that a candidate who is eligible to be presented in the school year then current for the Scottish Leaving Certificate Examination may take the Preliminary examination only if: (a) the subjects for which he enters are included in the syllabuses of the Preliminary examination but not in the approved course followed for purposes of the Scottish Leaving Certificate at the school which he is attending; or (b) he is in the opinion of the Board and of the Scottish Education Department so exceptionally circumstanced as to warrant admission. *Note.*—An application under Clause (b) will be considered jointly by the Board and the Department only if its contents are certified correct by the applicant's parent or guardian and countersigned by the Head of his School. The application must be submitted not later than 15th January upon a form of entry for the Preliminary Examination to be obtained from the Secretary to the University at which the candidate proposes to enrol for the Spring Preliminary Examination.

SCOTTISH UNIVERSITIES PRELIMINARY EXAMINATION

Rule 1. These rules regulate the conditions upon which passes in the Scottish Universities Preliminary Examination will qualify for the Board's Attestation of Fitness.

Rule 2. The subjects included in the Preliminary Examination are the following:—

Group I—English; History; Geography; and, only under the provisions of Rule 5, Special English.

Group II—Mathematics; Science (any two of Physics, Chemistry, Botany, Zoology and Geology); Additional Mathematics (*i.e.* passes at one session in two of the three papers, Dynamics, Geometry and Elementary Analysis). *Note.*—A candidate who passes in any four branches of Science will be deemed to have passed (a) in two subjects on the higher standard if his four passes are all on that standard; (b) in two subjects on the lower standard if his four passes are all on that standard. (A candidate may offer only two branches of Science on the lower standard at one session of the examination); (c) in two subjects, one on the lower standard and one on the higher standard, if two of his four passes are on the lower standard and the other two on the higher.

Group III—(a) Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian, and (b) Arabic; Czech; Hindi; Icelandic; Irish; Norwegian; Persian; Polish; Sanskrit; Swedish; Turkish; Urdu; Welsh. (*Note.*—Hindi and Urdu are mutually exclusive for purposes of Attestation. Candidates offering Hindi are required to use the Devanagari Script; those offering Urdu are required to use the modified Persian Script.)

Group IV—Music; and any language included in the Appendix on p. 17 but not in Group III above.

Note.—(a) In Mathematics, Science (except Geology), History, Geography and the languages of Clause (a) of Group III there shall be two standards—a

higher and a lower: in all other subjects there shall be a higher standard only. (b) Candidates entering for languages included in Group III (b) must lodge their applications by the dates indicated on p. 28.

Rule 3. (a) There must be at least four passes on the higher standard or three on the higher and two on the lower standard; (b) there must be higher passes in English and in two other subjects taken from Groups II and/or III; (c) there must be at least one pass in a Group II subject and at least one pass in a Group III subject; (d) if there is no pass on the higher standard in a Group III subject, there must be a pass in Higher Mathematics; (e) subject to the exception in the Note below Group II, it is not permitted to reckon among the required passes both a higher and a lower standard pass in the same subject.

Rule 4. The Preliminary Examination may be completed by passes obtained at not more than two separate sittings, if the candidate obtains his entire qualification by means of this Examination. No limitation is placed upon the number of times a candidate may present himself for examination, or upon the interval which may elapse between two such presentations: provided that, in ascertaining whether the candidate has completed his qualification, not more than two separate periods of examination shall be taken into account. In the case of a candidate who obtains his qualification partly by means of passes in the Leaving Certificate Examination of the Scottish Education Department and partly by means of passes in the Preliminary Examination, all the passes in the Leaving Certificate Examination must have been obtained (or be deemed to have been obtained) at one sitting and all the passes in the Preliminary Examination at one sitting.

Rule 5. The following alternative is open only to a candidate whose native language is other than English and who can show that the bulk of his education has been conducted mainly through the medium of a language other than English. He will qualify for the Board's Certificate of Fitness if in not more than two separate sessions of the Preliminary Examination he satisfies the following conditions:—(a) he is not obliged to pass in English, Ordinary or Special, but may at his option pass the Board's Special Examination in English, counting it as a pass on the lower standard in a subject of Group I; but, if he omits English altogether, he must have a pass on the higher standard in a language of Group III; (b) if he passes in Special English but has no higher pass in a language of Group III, he must have a pass in Higher Mathematics; (c) he must have in all at least four passes on the higher standard or three on the higher and two on the lower standard; (d) he must have passes on the higher standard in at least three subjects included in the first three Groups, but not more than one of them may be counted from Group I; (e) there must be at least one pass in a subject of Group II and one in a subject of Group III. *Note.*—A candidate as defined in this Rule who produces the Certificate of Proficiency in English awarded by the University of Cambridge Local Examinations Syndicate will be deemed to have the equivalent of a pass in Ordinary English of Group I and will be governed in respect of Attestation by Rules 1 to 4 of this Section and not by this Rule 5, except that the pass in the Cambridge Certificate will not be counted against the two permissible sessions of the Preliminary Examination.

Notice to Candidates

The Scottish Universities Entrance Board reserves the right to withhold its Attestation of Fitness from any applicant who, in its opinion, although otherwise qualified to obtain that Attestation, has been guilty of irregular practices in an examination.

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V. Applicants of not less than 23 Years of Age

Applicants who are not less than 23 years of age applying for exemption from the whole or from part of the requirements of the foregoing regulations must furnish to the Board a satisfactory reason for their not having qualified in the ordinary way at the normal time and must make it clear that there have been obstacles in the way of their satisfying one of the regular tests. The Board must be satisfied that an applicant's education at school and subsequently has been of a sufficiently general and liberal character, and of his present fitness to enter upon the curriculum for a degree. As a rule an applicant will be asked to submit a certificate from his former headmaster, showing to what stage his education had advanced and what subjects it embraced.

SYLLABUSES FOR THE PRELIMINARY EXAMINATION, 1960

The papers utilised at the Spring Examination are those set for the Scottish Leaving Certificate in all subjects except Special English, Higher Geology and the additional recognised languages (p. 17): for these subjects papers are set by the Board on the syllabuses prescribed for the Board's Autumn Examination. For the scope of the Scottish Leaving Certificate Examination papers candidates are advised to consult for the 1960 examination Circular No. 30 (1959) of the Scottish Education Department. For Modern Languages additional information, including specimen papers, is available in the Scottish Education Department's Circular No. 166. Candidates should note that they are not required to take the aural comprehension test. Further particulars about the papers in Mathematics and Additional Mathematics will be found in the Scottish Education Department's publication *Mathematics in Secondary Schools* (1950) and in the Department's Circular No. 235 (1952) respectively. These publications and copies of previous papers set in the spring examinations are obtainable, on payment, from H.M. Stationery Office, 13A Castle Street, Edinburgh. Copies of previous papers set in ordinary subjects of the Autumn examinations are obtainable on payment from James Thin, 55 South Bridge, Edinburgh.

Subjects of Examination

HIGHER ENGLISH

Spring Preliminary Examination, 1960

The English examination will be conducted upon the papers set in the Leaving Certificate Examination in Higher English. Every candidate must answer the English papers I (a), I (b), and II.

Autumn Preliminary Examination, 1960

ENGLISH.—There will be two papers of two-and-a-half hours each. (1) English Language. Questions testing knowledge and command of English. These will include:—(i) A prose passage, or passages, from standard English authors for paraphrase (or précis), interpretation and comment, with appropriate exercises on the meaning of words and construction of sentences. (ii) A verse passage, or passages, to be taken from the books prescribed in (2) for paraphrase (or précis) interpretation and comment. (iii) Questions on the English Language requiring an elementary knowledge of the growth and nature of its grammar and vocabulary. Prescribed book:—Bradley, *Making of English*. (2) English Literature.—(i) An essay to test powers of thought, arrangement, and expression, on a subject suggested by the prescribed books of the year. (ii) Questions on the text and subject matter of these books. Of these questions, one will be

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compulsory, and will contain passages from these books for recognition and explanation. Books for (2) (English Literature) for autumn 1960:—Shakespeare *Coriolanus*; Scott, *Short Stories* (World's Classics); Milton, *Shorter Poems*, ed. by B. A. Wright (Macmillan & Co.); Johnson, *Life of Milton*.

SPECIAL ENGLISH FOR FOREIGN STUDENTS

Spring and Autumn Preliminary Examinations, 1960

The examination in Special English will consist of a paper of three hours in which candidates will be required (i) to write a short composition in English on some general topic; (ii) to answer questions on the content of a short extract from some standard English author, and (iii) to answer questions on the commoner points of English usage and grammar.

LATIN AND GREEK

Spring Preliminary Examination, 1960

The Latin and Greek examinations will be conducted on the papers set in the Leaving Certificate Examination in Latin and Greek. In these examinations there are no prescribed books and it will not be open to a candidate to enter for both Lower Latin and Higher Latin or both Lower Greek and Higher Greek.

Autumn Preliminary Examination, 1960

The examinations on the higher standard will include translation from Latin or Greek prose and verse, composition (continuous prose and sentences) and questions on grammar. The passages for translation will include passages from the following prescribed books:—

Higher Latin—Virgil, *Aeneid* I and II.

Higher Greek—Euripides, *Hecuba* or Homer, *Odyssey* IX and X.

The examinations on the lower standard will include translation from Latin or Greek prose, composition (continuous prose and sentences in Latin, sentences in Greek) and questions on grammar.

Candidates on either standard are required to satisfy the examiners both in composition and in translation.

MATHEMATICS

Spring and Autumn Preliminary Examinations, 1960

Mathematics on the lower standard comprises Arithmetic, Algebra, Trigonometry and Geometry, including simple exercises on three-dimensional figures. Mathematics on the higher standard includes these topics carried to a more advanced level, together with Analytical Geometry and the Calculus. There will be two papers in Mathematics on each standard.

Candidates are strongly advised to consult the Scottish Education Department leaflet *Mathematics in Secondary Schools* (H.M. Stationery Office, Edinburgh, 1950), in which the syllabus on both standards is given in detail. At the spring examination the papers will be those set in the Leaving Certificate Examination and no candidate may enter for both Lower and Higher Mathematics. At the autumn examination the papers will be similar in scope and content.

ADDITIONAL MATHEMATICS

Spring and Autumn Preliminary Examinations, 1960

Elementary Analysis

The subject matter of the Mathematics syllabus on the higher standard. (More difficult questions may be set.) The function $a \cos x + b \sin x + c$ and solution

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of the associated equation by the subsidiary angle method; general solutions of trigonometric equations. Inverse circular functions. Elimination. Determinants of second and third orders, including addition theorems but excluding multiplication of determinants; use of determinants in the solution of linear equations and in elimination. Further factors and equations. Elementary treatment of inequalities. Partial fractions. Permutations and combinations. Binomial theorem for a positive integral index (with proof). Summation of series whose n th term is a polynomial in n . Infinite series; tests for convergence. Binomial theorem for any index (without proof), and its use for approximation. Logarithmic series. Exponential series. Complex numbers; De Moivre's theorem. Limits; differentiation of a product, a quotient, and a function of a function; second derivative; integration by change of variable and by parts; differentiation and integration of circular functions, inverse circular functions, logarithmic and exponential functions; applications of the calculus to tangents, maxima and minima, areas, and volumes. Graphs of functions; turning points; points of inflexion; asymptotes.

Geometry

The subject matter of the Mathematics syllabus on the higher standard. (More difficult questions may be set.) Further analytical geometry of the straight line; areas; the angle between two lines; the distance of a point from a line; bisectors of the angle between two lines; concurrence; pairs of straight lines. Change of origin; polar co-ordinates. Further analytical geometry of the circle: chords and tangents; intersection of circles. Analytical geometry of the parabola, ellipse, hyperbola, and rectangular hyperbola: the focus-directrix property; the equations in standard and parametric forms; chords, tangents, and normals; conjugate diameters of ellipse and hyperbola; consideration of the ellipse as the orthogonal projection of a circle. (Polar equations of conics and discussions of the general equation of the second degree are not expected.) The theorems of Ceva and Menelaus; harmonic ranges and pencils. Trigonometry of the triangle and its inscribed and escribed circles. Further geometry of the circle: inverse points; pole and polar; orthogonal circles; radical axis; co-axial circles.

Dynamics

Velocity, composition of velocities, relative velocity; acceleration; rectilinear motion of a particle under uniform acceleration, simple cases of rectilinear motion of a particle under non-uniform acceleration; mass, momentum, laws of motion, motion of connected particles; composition and resolution of forces, including the polygon of forces; motion under gravity, projectiles; work, energy, power; friction; centre of mass (gravity); equilibrium of a rigid body acted on by co-planar forces; direct impact, simple cases of oblique impact, coefficient of restitution; uniform circular motion, conical pendulum; simple harmonic motion, fundamental conditions, amplitude, period, frequency, vibration of spiral spring, simple pendulum.

SCIENCE

Spring Preliminary Examination, 1960

Candidates will take the papers (except in Geology) set in the Leaving Certificate Examination of the Scottish Education Department. The paper set in Geology (which may be taken only on the Higher standard) will be based on the syllabus given below.

Autumn Preliminary Examination, 1960

On the Lower standard there will be one paper divided into four sections, viz., Physics, Chemistry, Botany, Zoology. A candidate is expected to answer questions from two sections, but not from more than two sections. In each

section a choice of questions will be allowed. The Examiners will be entitled to reject a candidate who makes in either of the two sections less than a certain minimum of marks allotted to that section.

The syllabus in each subject for the Lower Standard is that given below for the Higher Standard with the omission of all items printed in italics. These syllabuses are designed to indicate the general scope of the work required and are not necessarily comprehensive in detail.

On the Higher Standard separate papers will be set in each of Physics, Chemistry, Botany, Zoology and Geology. A candidate must take two of these papers. Each paper will be of two hours' duration with the exception of that in Physics for which two-and-a-half hours will be allowed. This paper will contain four sections (i) Mechanics, three questions; (ii) Heat and Hydrostatics, three questions; (iii) Sound and Light, three questions; (iv) Magnetism and Electricity, three questions. Candidates will be required to answer any six questions.

Physics

(i) Mechanics:—velocity, acceleration, *uniformly accelerated rectilinear motion*, definition of force, parallelogram, triangle and *polygon of forces*, composition and resolution of forces, parallel forces, principle of moments, centre of gravity, friction, work and power, simple machines, *Newton's laws, potential and kinetic energy*, the simple pendulum, *mass and density*.

(ii) Heat and Hydrostatics: expansion of solids, liquids and gases, thermometry, change of state, anomalous expansion of water, *coefficients of expansion*, modes of transmission of heat, quantity of heat, specific and latent heats, *mechanical equivalent of heat*, ideal gas laws, hygrometry, specific gravity, fluid pressure, Archimedes' principle.

(iii) (a) Sound:—waves, velocity, pitch, intensity, quality, production and transmission of sound, echoes, resonance, beats, tuning fork, siren, *vibrating strings and air columns*; (b) Light:—rectilinear propagation, photometry, laws of reflection and refraction, index of refraction, *critical angle*, images produced by plane mirrors, *spherical mirrors* and thin lenses, *simple optical instruments, the eye, dispersion, the spectrum*.

(iv) Magnetism and Electricity:—lines and fields of force of magnets, neutral points, terrestrial magnetism, "permanent" and "induced" magnetism, quantity of electricity, electric potential and capacitance, simple cell, Leclanché cell, lead accumulator, magnetic, heating and chemical effects of currents, tangent galvanometer, resistance, Ohm's law, factors affecting resistance, *specific resistance*, potentiometer, *Joule's law, Faraday's laws of electrolysis, force on a current-carrying conductor in a magnetic field*, ammeter and voltmeter, use of shunts.

Chemistry

The factual knowledge required by the following syllabus is to be seen against the background of general principles such as the periodic classification of the elements and simple ideas of atomic structure.

Fundamental laws, equivalent, atomic, and molecular weights, valency, formulæ and equations, *determination of vapour density, volumetric composition of gases, diffusion, Graham's law*. The atmosphere, oxygen, *ozone*, hydrogen peroxide, oxides, acids, bases, salts. Hydrogen, gravimetric and volumetric composition of water. Halogens and hydrochloric, *hydrobromic, hydriodic acids and their salts, hypochlorous acid*. Nitrogen, oxides, *nitrous acid*, nitric acid and nitrates, ammonia, ammonium salts, thermal dissociation, *ionisation, reversible reactions*. Carbon, oxides, coal gas, water gas, flame, oxidation and reduction, carbonates and bicarbonates. Sulphur, oxides and acids, hydrogen sulphide, *sulphides*. Volumetric analysis, acidimetry and alkalimetry, *potassium permanganate*. Metals, *extraction of mercury, aluminium and iron from ores, principal salts of common metals*. *Manufacturing processes studied incidentally and only in so far as they are capable of illustration in the laboratory. (A knowledge of the more important chemical reactions without details of the commercial processes involved is all that is required.)*

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Botany

(i) General structure of the flowering plant. Functions of the flower, fruit and seed. Fertilisation. Seed dispersal. Germination ; growth of the seedling. The anatomy, including microscopical structure of the stem, root, and leaf in the dicotyledon and monocotyledon; secondary growth in the dicotyledon axis.

(ii) Intake of water and food-salts. Water cultures. Ascent of sap; transpiration; Photosynthesis. Translocation, storage, and digestion of food materials. Enzyme action. Tests for starch, sugar, protein, fat. *Other modes of nutrition, as shown by Leguminosae, insectivorous plants, parasites and non-green plants.* Respiration. Measurement of rate of growth. *Plant hormones.* Tropisms and plant movements. Vegetative propagation.

(iii) *The main distinguishing characters of the following groups of the plant kingdom:—algae, fungi, ferns, gymnosperms, angiosperms.* The common families in the British Flora, including Ranunculaceae, Cruciferae, Rosaceae, Leguminosae, Caryophyllaceae, Primulaceae, Labiatae, Scrophulariaceae, Compositae, Liliaceae, Amaryllidaceae, Gramineae (one example, such as oat or perennial rye grass). The families should be studied by examination of the plants in the field and in the laboratory. Pupils should be trained in the use of a simple flora.

(iv) General structure of Protococcus or yeast, Fucus, Mucor or mushroom. *A more detailed study of the life-history and mode of reproduction of Spirogyra and Aspidium. The external morphology and life-history of Scots Pine.*

(v) Modifications of the plant body in relation to habitat. Soil in relation to plant life. Nitrifying bacteria and their work. Ecological relations of plants to one another and to animals, as studied in one selected habitat, such as woodland, shore, pond, stream, moor, waste ground, garden. Pupils should also keep personal records of their observations throughout the year on a small area studied intensively. Recognition of common trees. Observations throughout the year on a selected tree, and a study of its external features. Leaf-fall.

Zoology

(i) General structural and functional organisation of paramecium, hydra, earth-worm, cockroach, a fish and a mammal.

(ii) Elementary physiological study of nutrition, respiration, *co-ordination* and reproduction.

(iii) Developmental stages of butterfly (or blowfly), frog, trout, as observed through a hand lens. Earlier development (in outline) of the frog embryo.

(iv) The principal recognition characters of Protozoa, Coelenterata, Annelida, Arthropoda, Mollusca, Echinodermata, Chordata, *and of the chief classes of Arthropoda and Chordata.* Examples of these groups from the British fauna.

(v) Natural history of the commoner British birds and mammals.

(vi) Inter-relations of animals and of animals and plants. Examples of animals harmful or beneficial to man and human activities.

(vii) Resemblances and differences between animals and plants. Animal and plant communities. Fauna of a freshwater pond (or balanced aquarium) or rocky shore, in relation to environmental conditions. *Seasonal rhythm of life in the sea.* Animal migrations. Candidates will be expected to give evidence in their answers of practical study in the laboratory and in the field.

Geology

(i) The earth as a planet. Characters of the atmosphere, the hydrosphere, the biosphere, and the lithosphere.

(ii) Geological processes—(a) Epigene—Weathering and erosion of the land surface by insolation, air, rain, rivers, glaciers, the sea, and plants and animals. Transport and deposition of the products of denudation; fluvial, lacustrine,

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estuarine and marine deposits, aeolian deposits, glacial deposits, soils. (b) Hypogene:—volcanoes and volcanic action; igneous intrusions; earthquakes, secular movements of upheaval and subsidence; folded mountain ranges and their origin; metamorphism.

(iii) Mineralogy and petrology:—The common rock-forming and vein-forming minerals, their chemical composition and their physical characters in hand specimens; the petrological characters of the common types of igneous sedimentary (or derivative) and metamorphic rocks.

(iv) Structural geology:—Consolidation of incoherent deposits; stratification; dip, strike, and outcrop of strata; jointing; folding; faulting; outliers and inliers; unconformity.

(v) Historical geology:—Methods of preservation of fossils and their importance in geology; reference of fossils of stratigraphical importance to their broad biological groups and to geological horizons; general principles of stratigraphy; stratigraphical nomenclature; outline of historical geology; salient characters and distribution of the geological systems in Great Britain.

MODERN LANGUAGES

It will not normally be open to a candidate to enter for both the lower and the higher papers in any Modern Language.

FRENCH, GERMAN, ITALIAN, RUSSIAN, SPANISH, HEBREW AND GAELIC

Spring Preliminary Examination, 1960

Lower Standard

The examination will be conducted on the papers (new type) set in the Leaving Certificate Examination of the Scottish Education Department, except that the aural comprehension test will be omitted. There are no prescribed books.

Higher Standard

The papers in French, German, Italian, Russian, Spanish, Hebrew and Gaelic on the higher standard will be the same as those set in the Leaving Certificate Examination of the Scottish Education Department (higher standard) with the exception that the aural comprehension test will be omitted. Two papers will be set in each language. There are no prescribed books.

Autumn Preliminary Examination, 1960

Lower Standard

The examination will comprise (1) passages for translation from the foreign language, and (2) a prose passage and sentences for translation into the foreign language. The paper will be one of three hours. There are no prescribed books.

Higher Standard

Two papers will be set in each language, two hours being allowed for each paper. There are no prescribed books, but the following books, though not prescribed, are recommended for reading by candidates in Higher Gaelic:—*Rosg Gàidhlig*, pp. 1-157, *Bàrdachd Gàidhlig*, pp. 1-219 (Watson's Readers). The first paper will contain a continuous prose passage and five sentences for translation from English into the foreign language, and an essay in the foreign language on some easy subject. The second paper will contain two passages for unseen translation into English (one in prose and one in verse), and five sentences for translation into English from the foreign language.

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OTHER RECOGNISED LANGUAGES

Spring and Autumn Preliminary Examinations, 1960

Examinations in other languages recognised by the Board will consist of two papers, each of two hours' duration, and will follow the general pattern described above for the Autumn Preliminary examination in French, German, etc., on the higher standard. Papers in Oriental and African languages, however, may depart in detail from that pattern. There are no prescribed books.

HISTORY

Spring Preliminary Examination, 1960

Lower Standard

The examination will be conducted on the paper set in the Leaving Certificate Examination of the Scottish Education Department.

Higher Standard

The examination will be conducted on the papers set in the Leaving Certificate Examination of the Scottish Education Department.

Autumn Preliminary Examination, 1960

There will be a lower and a higher grade. In both grades, questions will be set in political, constitutional, and social history. Candidates will be expected to show appreciation of the economic and geographical factors involved.

Lower Grade

One paper will be set in British History from 55 B.C. to 1939, and will be of two hours' duration. It will be divided into three sections, as follows:— (a) 55 B.C. to 1485; (b) 1485-1763; (c) 1763-1939. In all, fifteen questions will be set, five in each section, and candidates will be required to attempt five. These five may be selected from any or from all of the sections. All questions will carry the same marks, and none will be compulsory.

Higher Grade

Two papers will be set, each of two hours' duration. Paper I will be in British History from 55 B.C. to 1939 and will be on the same lines as the paper in the Lower Grade, but will be on a higher standard. Paper II will be in European History from A.D. 476 to 1939. It will be divided into three sections, as follows:—(a) A.D. 476-1494; (b) 1494-1789; (c) 1789-1939. The paper will consist of fifteen questions, five in each section, and candidates will be required to attempt five. These five may be selected from any or from all of the sections. All the questions will carry equal marks, and none will be compulsory.

GEOGRAPHY

Spring Preliminary Examination, 1960

Lower Standard

The examination will be conducted on the paper set in the Leaving Certificate Examination of the Scottish Education Department.

Higher Standard

The examination will be conducted on the papers set in the Leaving Certificate Examination of the Scottish Education Department.

Autumn Preliminary Examination, 1960

There will be a lower and a higher grade. In both grades, candidates will be required to show ability to use maps of different types (Atlas Maps, Ordnance Survey Maps, and the International 1/1,000,000 Map) and to answer questions based upon a map, or maps, which will be provided. The study of Atlas Maps will include comparison of nets (projections). Candidates will be expected to draw simple sketch maps and diagrams as integral parts of their answers.

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Questions will be set on General and Regional Geography, and candidates will be expected to show appreciation of the physical, historical, social, and economic factors involved.

Lower Grade

One paper will be set of two hours' duration and will comprise thirteen questions, of which No. 1 will be a map question *compulsory for all candidates*. The remainder of the paper will be divided into three sections, each of four questions, and candidates will be required to attempt four. These four may be selected from any or from all of the sections. All questions carry the same marks.

The subjects covered by the sections will be as follows:—(a) The World as a whole—Size and shape of the earth; distribution of land, sea, and relief; distribution of population; the different types of human society—cultural, linguistic, and national. (b) The British Isles. (c) Europe, exclusive of the U.S.S.R.; and the British self-governing Dominions.

Higher Grade

Two papers will be set, each of two hours' duration. Paper I will be on General Geography, and will be on the same lines as section (a) of the Lower paper, but will be on a higher standard.

Paper II will be on Regional Geography, and will be divided into three sections as follows:—(a) The British Isles. (b) Western Europe and the British Commonwealth of Nations. (c) North America, and the U.S.S.R.

The requirements as to the number and choice of questions for paper I will be the same as for the Lower Grade.

Paper II will comprise fifteen questions, five in each section, and candidates will be required to attempt five in all. These five questions may be selected from any or from all of the sections. All questions carry the same marks, and none will be compulsory.

MUSIC (HIGHER)

Spring Preliminary Examination, 1960

The examination will comprise the written papers set in the Leaving Certificate Examination of the Scottish Education Department and a practical test conducted by the Board's Examiner on a date during the session of examination which will be notified to candidates by the University Authorities. At the practical test candidates may be required to sing or play part or all of two contrasted pieces of music of their own choice; to sing and/or play at sight; and to undergo ear tests of general musicianship.

Autumn Preliminary Examination, 1960

There will be two papers, each of two-and-a-half hours, and a practical examination. In the first paper candidates will be required:—1. To harmonise a musical sentence in four vocal parts, bass or melody given, using simple diatonic harmony involving not more than one modulation to a closely related key. 2. To add a melodic bass to a given treble melody, or vice versa. 3. To compose a melody to a given stanza of poetry. 4. To analyse a melody in detail, particularly as regards rhythmical construction.

In the second paper candidates will be required:—1. To quote or recognise a number of prescribed melodies, not less than twelve, and to show a knowledge of three prescribed works to be studied in detail. 2. To answer general questions on the history of music from A.D. 1670-1900. 3. To show a comprehensive knowledge of the rudiments of music (Staff Notation, including use of C clef, solfa, and technical names of degrees of the scale, melodic intervals, diatonic chords of the major and minor key, cadences, simple modulation, melodic and simple harmonic transpositions, Italian musical terminology and abbreviations).

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In the practical examination candidates will be required:—1. To play a movement or sing a song of their own choice taken from a work of one of the following composers—Bach, Handel, Haydn, Mozart, Beethoven, Schubert, Schumann, Brahms. 2. To undergo simple tests in musicianship—(a) playing or singing at sight; (b) ear tests (short melodies and diatonic triads in major and minor keys) to be answered *viva voce*.

Scores for detailed study, 1960.—Mozart, *Symphony No. 40 in G Minor* (min. score any edition); Handel, *Ode for Queen Anne's Birthday* (vocal score, Bärenreiter edition, Novello); Brahms, *Three Intermezzi*, op. 117 (for pianoforte, any edition). 2. Melodies—From *The New Scottish Orpheus Collection, Vol. 1* (Paterson)—(a) O gin I were a Baron's heir; (b) Willie's rare and Willie's fair; (c) The Broom o' the Cowdenknowes. From *The Clarendon Song Book I* (Oxford Univ. Press)—(d) Old King Cole; (e) Gossip Joan; (f) Lincolnshire Poacher; (g) Child in the Manger; (h) Schubert, Cradle Song; (i) Schumann, Ladybird; (j) Brahms, Blacksmith's Sweetheart. From *The Scottish Revised Hymnary*—(k) Agincourt Song; (l) Martyrs.

Fees and Dates of Entry for Preliminary Examinations

Entries for Preliminary examinations are received at the Matriculation Office, Old College, as follows¹:—

Spring examination, 1960	between 25th January and 1st February 1960 (10-1, 2-4)
Autumn examination, 1960	between 29th June and 5th July 1960 (10-1)

Candidates for examination in languages other than Latin, Greek, French, German, Italian, Spanish, Gaelic, Hebrew and Russian must enter and pay their fees by 2nd November 1959 for the spring examinations and by 2nd May 1960 for the autumn examinations.

Candidates who cannot pay the fees personally should transmit them to the Secretary to the University, Old College, Edinburgh, by money or postal orders, or by bank drafts, crossed "Bank of Scotland (Hunter Square Branch), Edinburgh."

The scale of fees for each appearance at the Preliminary examination is as follows:—

A basic entry fee of £1² plus—

- (a) 10s. extra for one and £1 for two, or more *ordinary* subjects offered.
- (b) £1 for Music and £3 for each language offered other than English, Celtic (Scots, Irish or Welsh), Czech, French, German, Greek, Icelandic, Italian, Latin, Spanish, Arabic, Hebrew, Hindi, Norwegian, Persian, Polish, Russian, Sanskrit, Swedish, Turkish, Urdu.
- (c) 5s. extra for each subject taken at an outlying centre, limited to £1.

A candidate must enter for each examination at which he desires to appear. If a candidate withdraws from, or fails to appear at an examination, the fee will not be repaid; but he will be allowed to present himself on one subsequent occasion for subjects of the same type and to the same number without further payment, provided that he duly enters his name for that examination.

¹ Late entries are accepted only in very special circumstances. No application will be considered after 8th February for the spring examinations and 12th July for the autumn examinations. A late entry fee of 10s. is payable on all late entries accepted.

² A student who has paid the above fee and has completed the Preliminary examination can recover 10s. 6d. on the first occasion of his entering for a degree examination. This repayment will be made in respect of only one entry for the Preliminary examination.

Provisional Timetable of Preliminary Examinations

Spring 1960

	<i>March</i>	<i>Hours</i>
Higher Music, 2nd Paper	M. 7	11-12
Higher Music, 1st Paper	M. 7	1.30-3.30
Higher English, 1st Paper (a)	Tu. 8	9.30-10.30
English, Special Paper for Foreign Candidates	Tu. 8	9.30-12.30
Higher English, 1st Paper (b)	Tu. 8	11-12.40
Higher English, 2nd Paper	Tu. 8	2-3.30
Lower History	W. 9	9.30-12
Higher History, 1st Paper	W. 9	9.30-12
Higher History, 2nd paper	W. 9	1.30-4
Lower Geography	Th. 10	9.30-12
Higher Geography, 1st Paper	Th. 10	9.30-12
Higher Geography, 2nd Paper	Th. 10	1.30-4
Lower French	F. 11	10-12.15
Higher French, 1st Paper	F. 11	10-12.15
Higher French, 2nd Paper	F. 11	2.15-4
Lower Mathematics, 1st Paper	M. 14	9.30-11.30
Higher Mathematics, 1st Paper	M. 14	9.30-11.30
Lower Mathematics, 2nd Paper	M. 14	1-3.30
Higher Mathematics, 2nd Paper	M. 14	1-3.30
Lower German	Tu. 15	10-12.15
Higher German, 1st Paper	Tu. 15	10-12.15
Higher German, 2nd Paper	Tu. 15	2.15-4
Additional Mathematics (Elementary Analysis)	W. 16	9.15-11.45
Lower Science	W. 16	1.30-4
Higher Chemistry	W. 16	1.30-3.30
Higher Physics	Th. 17	9.15-11.45
Lower Italian	Th. 17	10-12.15
Higher Italian, 1st Paper	Th. 17	10-12.15
Higher Botany	Th. 17	1-3
Higher Italian, 2nd Paper	Th. 17	2.15-4
Lower Latin	F. 18	9.15-11.45
Higher Latin, 1st Paper	F. 18	9.15-11.45
Higher Latin, 2nd paper	F. 18	1-3
Additional Mathematics (Geometry)	M. 21	10-12
Lower Hebrew	M. 21	9.30-12
Higher Hebrew, 1st Paper	M. 21	9.30-12
Lower Spanish	M. 21	10-12.15
Higher Spanish, 1st Paper	M. 21	10-12.15
Lower Gaelic	M. 21	10-12.15
Higher Gaelic, 1st Paper	M. 21	10-12
Higher Hebrew, 2nd Paper	M. 21	1.30-3.30
Higher Gaelic, 2nd Paper	M. 21	2-4
Higher Spanish, 2nd Paper	M. 21	2.15-4
Lower Greek	Tu. 22	9.15-11.45
Higher Greek, 1st Paper	Tu. 22	9.15-11.45
Higher Greek, 2nd Paper	Tu. 22	1.30-3.30
Higher Zoology	Tu. 22	1.30-3.30
Higher Geology	W. 23	9.30-11.30
Additional Mathematics (Dynamics)	W. 23	1.30-3.30
Lower Russian	Th. 24	10-12.15
Higher Russian, 1st Paper	Th. 24	10-12.15
Higher Russian, 2nd Paper	Th. 24	2.15-4

The Entrance Board meets on 16th April 1960

Admission to the University

Provisional Timetable of Preliminary Examinations

Autumn 1960

<i>Subjects</i>	<i>August</i>	<i>Hours</i>
Music, 1st Paper	M. 8	10.30-1
Music, 2nd Paper	M. 8	2-4.30
Additional Mathematics (Elementary Analysis)	M. 8	2-4.30
English, 1st Paper (Language)	Tu. 9	9.30-12
English, Special Paper for Foreign Candidates	Tu. 9	9.30-12.30
English, 2nd Paper (Literature)	Tu. 9	2-4.30
Higher History, 1st Paper	W. 10	9-11
Lower History	W. 10	11.30-1.30
Higher History, 2nd Paper	W. 10	2.30-4.30
Higher Mathematics, 1st Paper	Th. 11	9-11
Higher Mathematics, 2nd Paper	Th. 11	11.30-1.30
Additional Mathematics (Dynamics)	Th. 11	3-5
Lower Mathematics, 1st Paper	F. 12	9-11
Additional Mathematics (Geometry)	F. 12	9-11
Lower Mathematics, 2nd Paper	F. 12	11.30-1.30
Lower Science	F. 12	3-5.30
Lower French	S. 13	9-12
Higher French, 1st Paper	S. 13	9-11
Higher French, 2nd Paper	S. 13	1-3
Higher Chemistry	S. 13	3.30-5.30
Lower German	M. 15	9-12
Higher German, 1st Paper	M. 15	9-11
Higher German, 2nd Paper	M. 15	1-3
Higher Physics	M. 15	3.30-6
Higher Latin, 1st Paper	Tu. 16	9-11
Higher Latin, 2nd Paper	Tu. 16	11.30-1.30
Lower Latin	Tu. 16	2.30-5.30
Higher Greek, 1st Paper	W. 17	9-11
Higher Russian, 1st Paper	W. 17	9-11
Higher Greek, 2nd Paper	W. 17	11.30-1.30
Higher Russian, 2nd Paper	W. 17	11.30-1.30
Lower Greek	W. 17	2.30-5.30
Lower Russian	W. 17	2.30-5.30
Higher Geography, 1st Paper	Th. 18	9-11
Lower Geography	Th. 18	11.30-1.30
Higher Geography, 2nd Paper	Th. 18	2.30-4.30
Lower Gaelic	F. 19	9-12
Lower Spanish	F. 19	9-12
Lower Hebrew	F. 19	9-12
Higher Spanish, 1st Paper	F. 19	9-11
Higher Gaelic, 1st Paper	F. 19	9-11
Higher Hebrew, 1st Paper	F. 19	9-11
Higher Spanish, 2nd Paper	F. 19	1-3
Higher Gaelic, 2nd Paper	F. 19	1-3
Higher Hebrew, 2nd Paper	F. 19	1-3
Higher Zoology	F. 19	3.30-
Higher Geology	S. 20	9-11
Lower Italian	S. 20	9-12
Higher Italian, 1st Paper	S. 20	9-11
Higher Italian, 2nd Paper	S. 20	11.30-1.30
Higher Botany	S. 20	2.30-4.30

If a candidate presents himself for Greek and Russian, or Gaelic and Spanish, or Gaelic and Hebrew, or Spanish and Hebrew, or Italian and Geology, or Music and Additional Mathematics his timetable will be re-arranged to meet this contingency.

The dates and hours of examination for recognised languages not included in this timetable will be arranged within the period of examination at times appropriate to the circumstances of each case.

The Entrance Board meets on 23rd September 1960.

GENERAL INFORMATION FOR STUDENTS

EXPENSES OF CURRICULA AND BURSARIES

Estimated Expenses of a Degree Curriculum

NOTE.—Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations". Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.

Maintenance at halls of residence costs from £100 to £141 for the three terms, or in lodgings (excluding lunch except at the week-end) from 3 to 4½ guineas per week. The annual subscription of the University Union is £3 and that of the University Women's Union £2, 2s.

ARTS.—M.A. degree. The annual expenditure for a degree curriculum of three years for an Ordinary Degree and four years for an Honours Degree is as follows:—Matriculation fee, £2, 12s. 6d.; annual fee, for tuition and one diet of examination, £35. The cost of books may be reckoned at £10 to £12 per annum.

B.Arch. degree. The course leading to the degree of B.Arch. is of five years' duration. The annual expenditure is: Matriculation fee, £2, 12s. 6d.; annual fee, for tuition and examination, £55.

B.Com. degree. The annual expenditure for a degree curriculum of three years is as follows: Matriculation fee, £2, 12s. 6d.; annual fee, for tuition and one diet of examination, £35.

LAW.—The annual expenditure for a degree curriculum of three years is as follows:—Matriculation fee, £2, 12s. 6d.; annual fee for tuition and one diet of examination—degree of B.L. £35, and degree of LL.B. £35. The cost of books may be reckoned at £9 per annum.

MEDICINE.—M.B., Ch.B. degrees. The course leading to the degrees of M.B., Ch.B. is of six years' duration. In each year of study a matriculation fee of £2, 12s. 6d. and an annual fee of £60, for tuition and one diet of examination, are exigible. The cost of books and instruments may be estimated at £20 to £30 per annum.

B.D.S. degree. The course leading to the degree of B.D.S. is of five years' duration. In each year of study a matriculation fee of £2, 12s. 6d. and an annual fee of £60, for tuition and one diet of examination, are exigible. The cost of workroom tools and hospital instruments is approximately £70. A small repayment will be made by the Hospital Authority for the use of instruments during the student's period of dental hospital practice. The cost of books may be estimated at £15 to £20 per annum.

B.V.M. & S. degree. The course leading to the degree of B.V.M. & S. is of five years' duration. In each year of study a matriculation fee of £2, 12s. 6d. and an annual fee of £60, for tuition and one diet of examination, are exigible. The cost of books and instruments may be estimated at £30 per annum.

MUSIC.—The course leading to the degree of B.Mus. is of four years' duration (three years for those who are granted exemption from the Preliminary Course); the Honours degree involves one additional year. In each year of study a matriculation fee of £2, 12s. 6d. and an annual fee of £35, for tuition and one diet of examination, are exigible. The cost of books and music may be reckoned at £7 per annum.

Allowance should also be made for the cost of private tuition in instrumental performance or singing studied outwith the University, which it is generally

General Information for Students

desirable that students should continue throughout their degree course. This is likely to be in the region of £25 to £30 per annum per instrument.

SCIENCE.—The duration of the several courses in the Faculty of Science is as follows:—

Ordinary degree in Pure Science, Forestry, and Engineering	3 years
Ordinary degree in Agriculture, Mining, and Chemical Technology and Honours degree in Pure Science, Forestry, Engineering, Mining, and Chemical Technology	4 years
Honours degree in Agriculture	5 years

In each year of study a matriculation fee of £2, 12s. 6d. and an annual fee of £55, for tuition and one diet of examination, are exigible. Additional expenses on books and instruments for Pure Science students may be estimated at from £7 to £15 per annum according to the branch of Science selected. Additional expenses for books for Applied Science students may be estimated at from £4 to £5 per annum. Engineering students require drawing instruments costing about £8 to £10. Forestry students require about £210 for the expenses of the various practical courses.

The Carnegie Trust for the Universities of Scotland

Regulations for Assistance with the Payment of Fees

- I. Applicants must be over sixteen years of age.
- II. Applicants must be of Scottish birth or extraction, or must have given two years' attendance after the age of fourteen at a school or institution under inspection of the Scottish Education Department.
- III. Applicants must hold the Certificate of Attestation of Fitness to enter upon a course qualifying for graduation in a Scottish University.
- IV. If a student is in receipt of a Local Education Authority bursary, no application to the Trust for assistance with the payment of fees will be considered unless special circumstances are adduced in its support.
- V. Students taking a second degree or extending their course of study by an extra year to acquire an additional qualification shall be eligible for assistance by the Trust if they are refused a Local Authority bursary or if their Local Authority bursary is deemed to be inadequate by the Executive Committee.
- VI. Graduate students, who are eligible in terms of Regulation II above, and are proceeding to further academic study for at least one full academic session for Diplomas offered by the Scottish Universities, may apply for assistance, provided they are not in receipt of a Local Education Authority bursary in the assessment of which the fees charged for the Diploma course are taken into account.
- VII. Application must be made on the prescribed form, obtainable from the Secretary and Treasurer, The Carnegie Trust for the Universities of Scotland, The Merchants' Hall, 22 Hanover Street, Edinburgh. No application should be made before 18th September. The closing date for lodging fully completed application forms is **20th October**.
- VIII. In writing for application forms, applicants must name their University, Faculty and Year of Study, and must state whether they have or have not previously been given assistance by the Trust. Applicants in the Faculties of Arts and Science must have their proposed course of study approved by their Adviser of Studies or Regent, before returning their completed application forms.
- IX. Applicants must normally have passed the graduation examinations relating to the previous stage of their curriculum before becoming eligible for further assistance. Beneficiaries will be supplied at the end of each session

Accommodation, Welfare, and Medical Services

with a Report Form, on which they must supply the Secretary and Treasurer with full particulars of classes they have attended, any distinctions gained, and the results of their degree examinations.

Assistance will not normally be given to applicants whose Local Authority bursaries have been suspended owing to failure in examinations. Full particulars must be furnished of any exceptional circumstances that may be held to account for failure.

X. Subject to the foregoing regulations applicants may receive either the full fees exigible in the relevant year of study, or such part thereof as may appear appropriate having regard to all the circumstances disclosed in the form of application.

Education Authority Bursaries

Education Authority Bursaries are available to students undertaking a whole-time course of University education. Intending applicants should communicate with the Director of Education for the area in which they live.

Entrance Bursaries

The University Entrance Bursary Examination is held annually in May. A form of entry and the Programme of Entrance Bursaries, showing the bursaries available for award and containing the regulations, may be obtained on request from the Matriculation Office, Old College, South Bridge, Edinburgh. Information on additional entrance bursaries in the Faculties of Divinity and Music is given in the respective Faculty Programmes.

ACCOMMODATION, WELFARE, AND MEDICAL SERVICES

Accommodation and Welfare Office

Miss D. C. Matchett, Superintendent of Student Accommodation and Welfare, may be consulted at the Welfare Office, The Pollock Institute, 46 Pleasance (during term, Mon. to Fri. 9-12.30 and 2-5, Sat. 9-12 noon.; during vacation, daily, 9-12). An up-to-date register of inspected and approved accommodation is maintained. Miss Matchett is prepared to help students to find suitable lodgings and to provide any general information and assistance such as advice about financial or personal difficulties.

Residences and Lodgings for Men Students

COWAN HOUSE, George Square, instituted and endowed by the late Dr Thomas Cowan, is under the direction of the University Court. There is accommodation for about 100 students in single study-bedrooms and a few double study-bedrooms. The charges for board and residence are as follows; per academic term not exceeding ten weeks:—single rooms, £38 to £43 (according to the room occupied); double rooms, £36 for each student. (In the present circumstances it may be necessary to increase this charge.) In accordance with the wishes of the founder a preference is given to applicants of Scottish, English, Welsh, or Irish descent. The normal period of residence is fixed by the Court at not more than three years. Fuller particulars and forms of application for admission may be obtained from Cowan House or the Matriculation Office. Applications for the coming session should be sent to the Warden (C. A. Lyall, B.Sc.) by 1st June. For Cowan House Scholarships (including those open to students in their second or later sessions) see Programme of Entrance Bursaries.

THE NEW COLLEGE DIVINITY STUDENTS' RESIDENCE. This is situated adjacently to New College on the Mound. The accommodation is comfortable and the terms are very moderate. Preference is given to students preparing for the Ministry of the Church of Scotland, who during the University terms of their Divinity course are granted a substantial reduction through a grant from

General Information for Students

the Baird Trust. Students other than students of Divinity, are, however, eligible for admission, so far as space allows. Application should be made to The Honorary Warden, Rev. A. C. Cheyne, B.D., New College, The Mound, Edinburgh 1.

INSTITUTE OF ANIMAL GENETICS GUEST-HOUSE, 169 Mayfield Road, at present in use as an annexe of Masson Hall, has accommodation for 12 post-graduate students. The house is intended primarily for those studying at the Institute of Animal Genetics, but research students from the other University departments may be accommodated should vacancies arise.

THE UNIVERSITY SETTLEMENT has study-bedrooms for fourteen male students at Cameron House, Prestonfield. The University Settlement is concerned to do social, welfare and educational work in a community setting and residents are expected to interest themselves in the life of the Settlement and to give one evening's work a week. The charge is £3, 10s. per week inclusive of all meals. Applications for rooms should be sent to the Warden.

SALISBURY GREEN, Dalkeith Road, has accommodation for 46 students. Applications for admission should be made in the first place to the Superintendent of Student Accommodation and Welfare.

LODGINGS.—The Superintendent of Student Accommodation and Welfare, The Pollock Institute, 46 Pleasance, has an up-to-date register of inspected and approved accommodation (see page 33).

Residences and Lodgings for Women Students

MASSON HALL, 31 George Square, is under the direction of the University Court. It has accommodation for 52 students. The residents have the use of the Square gardens. Mayfield House, 169 Mayfield Road, and Rankine House, Hallhead Road, have accommodation for another 28 students. The terms for board and residence are £141 for the academic year of three Arts terms. For further particulars apply to the Warden, Miss E. L. Carrick, B.Sc. The Honorary Secretary is Mrs B. M. Horn, and the Honorary Treasurer, Mrs W. L. Lamb.

MUIR HALL.—34-36 Drumsheugh Gardens, under the direction of the University Court, has accommodation for 78 students (preference is given to Medical students). For further particulars apply to the Warden, Miss M. Crosland, M.A.

BALFOUR, BUCHANAN, CARLYLE, DARROCH, AND PLAYFAIR HALLS OF RESIDENCE for women students are situated at Craigmillar Park, with an entrance from East Suffolk Road. Each hall has its own common-room, library, and dining-room, and accommodates 50 to 60 students, for whom separate study-bedrooms are provided. The grounds extend to about twenty acres, and excellent facilities are afforded for tennis, hockey, and net-ball. The charge for board and residence, without lunch Monday to Friday, is £120 for the session of three terms. The University, Moray House, and other educational institutions can be reached by bus in about twenty minutes. The following persons are eligible and may apply for admission:—(a) Matriculated women students attending the University of Edinburgh; (b) women students attending Moray House College of Education; (c) women students who are beneficiaries of the Carnegie Trust, in attendance at other educational institutions. For further particulars apply to the Principal Warden, Miss M. B. Fergusson, M.A., Carlyle Hall, East Suffolk Road, 9.

ST LEONARD'S HALL, Park Road (off Dalkeith Road), has accommodation for 44 students. Applications for admission should be made in the first place to the Superintendent of Student Accommodation and Welfare.

LODGINGS.—Information about approved halls of residence and lodgings, including those specially suitable for women students, can be obtained by women students entering the University, by Education Committees, and by heads of

Accommodation, Welfare, and Medical Services

schools on application to the Superintendent of Student Accommodation and Welfare, The Pollock Institute, 46 Pleasance. Women students who wish to stay in lodgings other than those recommended by the University should report them by 30th September to the Superintendent of Student Accommodation and Welfare.

Medical Services for Students at the University of Edinburgh

The University Student Health Service, 20 Marshall Street (telephone 42805) provides to all matriculated students facilities for the protection of student health by certain preventive measures, and a comprehensive medical service to students whose homes are outwith the Edinburgh area.

PREVENTIVE.—All students of the University are required before matriculation to undergo radiological examination of the chest. The necessary facilities for this examination will be provided at the place of matriculation during matriculation hours. If for any reason objection is taken to the procedure, a letter of application for exemption should be sent as early as possible in the session to the Secretary to the University.

All students, but in particular those engaged in the study of Medicine, Dentistry and Veterinary Medicine, will be invited to have skin tests to assess their susceptibility to tuberculous infection. Those found to be susceptible will be offered preventive vaccination.

Agricultural and Veterinary students will be offered immunisation against tetanus.

Fourth-year Medical students who are found on testing to be susceptible to diphtheria will be offered immunisation.

Prophylactic measures to protect students from smallpox, typhoid, cholera, influenza, etc., will be available only to students who are registered with the Student Health Service.

COMPREHENSIVE MEDICAL SERVICE. Registration.—All students whose homes are outwith the Edinburgh area require to bring their medical cards for registration for medical services in Edinburgh. Students living at home should continue to attend their own family doctor.

Students from abroad, who are therefore not registered for medical services, must fill in a form (E.C.1) which will be available at the Matriculation Office or the Student Health Service Office, 20 Marshall Street. They may register with any general medical practitioner in Edinburgh or with the University Student Health Service.

MEDICAL ADVICE AND TREATMENT.—The University provides a well-equipped Student Health Centre at 20 Marshall Street, where students may consult any of the undermentioned doctors from 12.30 to 3 p.m. Monday to Friday, and 9 to 9.30 a.m. Saturday;

Dr R. E. Verney
Dr J. B. Brown
Dr I. H. Stokoe

Dr Marjory Keith
Dr Edith Thomson

Domiciliary Treatment.—Students requiring urgent medical attention may obtain it from a University Student Health Service doctor by telephoning 41002 or, during office hours, 42805.

Hospital and Specialist Services.—Special facilities and accommodation are available in the Royal Infirmary.

DENTAL SERVICE.—The services of two whole-time Dental Surgeons, Mr J. B. Burnett and Mr H. P. Sager, are available to students for routine dental inspection and dental treatment under the terms of the National Health Service, as are other dental practitioners in the city.

Dr R. E. Verney, as Senior Physician, is in charge of the Student Health Service. Mrs E. H. Douglas is secretary and Mrs C. MacMillan nursing sister to the Student Health Service.

General Information for Students

LIBRARIES AND MUSEUMS

University Library

The University Library consists of the General Library with Reading-Rooms in the Old College, the Central Medical Library and the Reading-Room in the New Buildings, and many Departmental and Class Libraries.

The persons entitled to borrow books from the General Library are:—

1. Members of the Senatus and University Readers and Lecturers;
2. Former Principals and former Professors, the Librarian, Members of the University Court and of the Library Committee, University Examiners, University Assistants;
3. Extra-academical teachers in Edinburgh who are recognised by the University;
4. Members of the General Council of any Scottish University (5 vols. for an annual fee of 10s. 6d. or a single payment of £5; 10 vols. for an annual fee of £1, 1s. or a single payment of £10);
5. Assistant Librarians and Clerks in the University Offices;
6. Matriculated students in attendance on at least one University course of lectures and matriculated students of any Scottish University attending lectures of extra-academical teachers in Edinburgh (3 vols.); Honours Students in their third and fourth years (6 vols.). Students should exhibit their matriculation card and a class card, if any, at the Accountant's Office, deposit 5s., and take the receipt to the Library where their names will be enrolled in the Library Register. The deposit may be lifted at any time on the return of all books borrowed. If, however, repayment is not claimed within five years from the date of the depositor's ceasing to be a matriculated student, the deposit shall be forfeited;
7. Matriculated research students (6 vols.; research students are assigned tables in the Library, where books may be reserved over a period); and
8. Other persons engaged in research who obtain the permission of the Library Committee.

Matriculated students may, without deposit, consult books in the Reading-Rooms but they are not allowed to borrow books overnight.

The Library is open to members of the general public free of charge for consultation and study of books within the Library building. Each person wishing to avail himself of this privilege should apply in writing to the Librarian.

Books may be recalled, if wanted by another reader, in a fortnight (or in certain cases subject to the discretion of the Librarian, a week) after being issued. The Librarian may recall any book at any time if it is required for class purposes. If a book be not returned on or before the day specified in the notice of recall, the borrower will be liable to a fine of threepence per volume every day until the book is returned or until the amount of the fine is equal to the sum for which the book can be replaced. Books not recalled by the Librarian may be retained beyond the fortnight. All books borrowed must be returned for the annual inspection in the last week of June. Notice of every book out on loan will be sent to the borrower by the Librarian, requiring its return before the appointed date of the inspection; and for every book not returned on or before that date the borrower will be liable to a fine of threepence a day for each volume, until it is returned or until the amount of the fine is equal to the value of the book.

Members of the teaching staff are supplied with books of recommendation slips. Other readers may make recommendations in the Suggestion Book kept in the Entrance Hall of the General Library.

Through an Inter-Library Lending System the University Librarian may be able, at the request of readers, to borrow from other Libraries at home and in certain cases abroad books which are not in the University Library.

Readers are allowed open access to most parts of the Library. This privilege naturally involves an obligation on the part of readers to exercise care in handling the books and in replacing them in their proper places.

The Librarian will report to the Library Committee all cases in which a book has been mutilated, disfigured by writing, or otherwise injured while in the hands of readers; and offenders may be required to replace the injured book, or may be fined to an amount not exceeding the value of the book, or deprived of the privilege of using the Library, at the discretion of the Committee. The removal of books from the Library without signing for them is an offence against the law as well as against Library Regulations, and makes the offender liable to severe penalties.

LIBRARY HOURS: General Library:—9.30-5 (Sat. 9.30-1). The General Library is closed on Christmas Day, the first two weekdays in the New Year, Good Friday, Victoria Day and the following day, and the Edinburgh Autumn Holiday, and, except for the return of books, during the annual inspection in the last week of June.

Reading-Rooms

There are two Reading-Rooms for students in the Old College, and a Reading-Room for students in the Faculty of Medicine in the New Buildings, in all of which matriculated students may consult books without lodging any Library deposit. Books may be borrowed overnight and at week-ends but only by students who have paid the Library deposit. They must be returned before 10 a.m. Students must on no account leave books lying on the tables; they must hand them to the Assistant Librarian in attendance. Those about to leave to attend lectures should hand in their books a few minutes before the close of each hour. Besides the books set apart for the use of students in the Reading-Rooms, students may have books brought from the General Library for consultation in the Reading-Rooms. No conversation or noise is permitted in the Reading-Rooms. Suggestion Books are kept in the Reading-Rooms for the use of students.

READING-ROOM HOURS—

Old College:

New Reading-Room, 9 a.m.-10 p.m. (Sat. 9.30-1) during terms.

9.30 a.m.-5 p.m. (Sat. 9.30-1) during vacations.

Old Reading-Room, 9 a.m.-5 p.m. (Sat. 9.30-1).

New Buildings:

Medical Reading-Room, 9 a.m.-10 p.m. (Sat. 10-1) during terms.

10 a.m.-6 p.m. (Sat. 10-1) during vacations except
August

10 a.m.-5 p.m. (Sat. 10-1) during August.

All Reading-Rooms are closed on the same official holidays as the General Library.

Central Medical Library

This is a special Library, chiefly for the use of the teaching staff and research workers. Readers not members of the staff are required to lodge a deposit of £1, which may be reclaimed when the reader ceases to use the Library, provided that all books borrowed have been returned. Borrowing rules may be obtained from the Librarian, Central Medical Library.

HOURS.—9 a.m. to 9 p.m. (Sat. 9-1) during terms; 10 a.m.-6 p.m. (Sat. 10-1) during vacations; closed on the same official holidays as the General Library.

General Information for Students

Departmental and Class Libraries

The following is a list of departmental and class libraries:—

Accounting	Law
Æsthetics	Linguistic Survey
Agriculture	Mathematical Physics
Ancient History (Giles)	Mathematics
Ancient Philosophy	Medical Social Work
Animal Genetics	Meteorology
Applied Dynamics	Mining
Applied Linguistics	Moral Philosophy
Architecture	Music (Reid)
Astronomy (Ramsay Memorial)	Natural Philosophy
Biblical Studies	New College
Bibliography	New Testament
Biophysics	Nursing Studies Unit
Botany	Organisation of Industry and Commerce
Celtic	Palæography
Chemical Technology	Philosophy (Haldane)
Chemistry	Phonetics
Classical Archæology	Physiology
Classics (Sellar and Goodhart)	Political Economy (Nicholson)
Constitutional Law	Prehistoric Archæology
Dentistry	Psychological Medicine
Dictionary of the Older Scottish Tongue	Psychology
Economic Geography	Public Health (Usher Institute)
Economic History	Russian
Education	Sanskrit
Engineering	School of Scottish Studies
English	Scottish History
Entomology	Semitic
Fine Art	Social Anthropology
Forestry	Social Philosophy
French	Social Sciences Research
Geography	Social Study
Geology	Spanish
German (Gibson)	Statistics
History (Kirkpatrick)	Veterinary (Royal Dick)
Islamic	Zoology
Italian	

Museums, etc.

[For departmental museums see UNIVERSITY CALENDAR, 1942-43, p. 100.]

Portraits and busts of benefactors of the University and of others are displayed in the Library, the Senate Hall, the Court Room, and elsewhere in the University.

The five finest pictures from the Torrie Collection are on loan to the National Gallery of Scotland, as are some of the bronzes and marbles. The remainder of the pictures, and some of the sculpture are in Adam House and the Staff Club. The collection was bequeathed to the University by Sir James Erskine of Torrie in 1834 "for the purpose of laying a foundation for a Gallery for the encouragement of the Fine Arts".

Laboratories, Hospitals, etc.

[For a full list of laboratories, hospitals, and buildings for practical work and instruction see the UNIVERSITY CALENDAR, 1942-43, pp. 100-1.]

SOCIETIES, UNIONS AND COMMON ROOMS

Students' Representative Council

The duties and rights of the Council are defined in Ordinance No. 22 (General) of the 1889 Commissioners. The functions of the Council are (a) to represent the students in matters affecting their interests; (b) to afford a recognised means of communication between the students and the University authorities; and (c) to promote social life and academic unity among the students. The Council is elected annually in November. It consists of representatives from all the Faculties, from certain student societies with at least fifty members, and from a certain number of student territorial societies without regard to their numerical strength. Ten ordinary meetings of Council are held during the academic year. The Office of the Council (Telephone 412901) is in the Old College, where a clerkess is in attendance (Monday to Friday 9.30 a.m.-1 p.m. and 1.30 p.m.-5 p.m., and Saturday 9.30-12 noon). Further information may be obtained from *The Students' Handbook*.

University Societies and Clubs

A detailed account of these societies is given in *The Students' Handbook* for the year.

University Settlement

The University Settlement Association carries on educational and social work from the main premises, Cameron House, Prestonfield, and from the branches—High School Yards and Kirk o' Field College, Infirmary Street. The Settlement Association encourages an interest in social problems, particularly among graduates and students of the University, and considers and tries to advance plans for the welfare of the community. The annual subscription is 1s. for matriculated students and 5s. for others. The fee for life membership is £10, 10s. The Warden of the Settlement is Mr B. J. Ashley, B.Sc. (Econ.).

University Union

Opened on 19th October, 1889, the Edinburgh University Union was the first of its kind in Great Britain, and came into being through the efforts of the students themselves. It is essentially a Society, whose purpose is "the provision and maintenance of means of social and academic intercourse for its Members".

Ordinary membership of the Union is open to all gentlemen members of the University: students, graduates, members of the teaching staff, members of the University Court, members of the Senatus Academicus, and certain other University officials.

The Union premises in Park Place provide facilities for a variety of interests. Debates, dances, and other functions are held in the Debating Hall. An extensive Library contains most of the standard text-books in Medicine and many other subjects, as well as a fiction section and works of reference.

Several rooms are set aside as quiet rooms and others are in use as the Conversation and Smoke Room, Committee Room, Reading-Rooms, Snack Bar and Billiard Room. The Billiard Room has four first-class tables. The Snack Bar has recently been re-equipped and modernised. The Reading-Rooms are well supplied with newspapers, and many periodicals, technical and popular, are available.

The Union is open on Sunday evenings during the Autumn and Spring terms for members and their guests.

The Union is licensed to sell ales and wines, and spirits are sold on special occasions. Modern kitchen and service accommodation has been installed to be in line with the new catering facilities. Other facilities include games such as bridge, table-tennis, darts, etc., cloakrooms and a left luggage office, etc.

General Information for Students

Certain privileges are granted to University Societies for the transaction of business in the Union and they may hire rooms for functions. Societies may become affiliated to the Union, which allows further privileges. Further details may be obtained from the Hon. Secretary.

The Committee of Management is responsible to the Members for all affairs of the Society. This Committee is for the most part elected annually and consists of the President, Hon. Secretary, and Hon. Assistant Secretary (all matriculated students), the Treasurer (a qualified accountant), one member of the Senatus Academicus, one member (or representative) of the University Court, four members of the General Council, and six matriculated students.

The annual subscription for ordinary membership is £3; there is no entrance fee. The terms for life membership, and for extraordinary membership, quarterly or annual, may be ascertained at the Union office. A system of reciprocal membership exists with corresponding Societies; these are the University Unions at Aberdeen, Glasgow, St Andrews, Dundee, Aberystwyth, Bangor, Queen's University Belfast, Birmingham, Bristol, Cardiff, Cambridge, Trinity College Dublin, Durham, Exeter, Hull, National University of Ireland, Leeds, Liverpool, London, Manchester, Newcastle-upon-Tyne, Nottingham, Oxford, Sheffield, Swansea.

University Women's Union

The Women's Union, 53 George Square, is a club whose membership is open to all matriculated students of the University and to graduates. The premises include a large dining-hall (where lunch, tea, evening meals, and light refreshments are provided at moderate charge), a hall for dances and conferences, lounges and a social room, all of which can be hired privately either with catering or without, a library for reference and fiction, several study rooms, and cloak-room, bathroom and locker facilities. Students and members who live out of town can have the use of bedrooms for a moderate fee if they wish to stay in Edinburgh overnight or for short periods. The Women's Athletic Club has been assigned a study for the posting of all teams and fixtures.

A system of reciprocal membership exists with the Women's Unions of other British Universities.

The annual subscription for matriculated students and for graduates is £2, 2s.; and for life membership £10, 10s. For further particulars apply at the office of the Union.

The King's Buildings Common Room

The King's Buildings Common Room, which adjoins the Science departments at West Mains Road, provides club and recreational facilities. The building contains a dining-room, a lounge, reading- and writing-rooms, a gymnasium, badminton and squash courts, changing rooms, showers, and locker accommodation. All matriculated students, members of affiliated societies, research students, graduates, and members of the University staff may become members.

University Colours

All members of the University are entitled to wear the University colours, as follows:—On a navy blue background, green diagonal stripes, one-quarter of an inch wide and one inch and three-quarters apart, with a white line on either side of each stripe (with the University arms superimposed on the background when the colours are worn in a tie). The official outfitters for these colours are:—Davison, Ltd., 14 Frederick Street; R. W. Forsyth, Ltd., 30 Princes Street; Stark Brothers, Ltd. (incorporating Christie & Kilpatrick), 7-9 South Bridge, and Patrick Thomson, Ltd., 3-29 North Bridge.

All the colours of the Edinburgh University Athletic Club and of the Edinburgh University Women's Athletic Club are detailed in *The Students' Handbook*. The official outfitters for the former club are R. W. Forsyth, Ltd., and for the latter, R. W. Forsyth, Ltd., and Stark Brothers, Ltd.

RELIGIOUS AND CULTURAL ACTIVITIES

University Chaplaincy

The Chaplain to the University is the Rev. James C. Blackie, M.A., B.D., S.T.M. He is available for consultation by any student or member of Staff at his office in The University Chaplaincy Centre, Forrest Road, 1 (tel. CAL 1414), daily during term between 9 and 11 a.m. and at other times by appointment at his house, 21 George Square (tel. 46020).

Edinburgh University Chaplaincy Centre

The Chaplaincy Centre is situated in the old New North Church building in George IV Bridge. It is open from 9 a.m. till 10 p.m. to all members of the University, both staff and students. There is a large auditorium for Society meetings and Services; a small Chapel for private devotions, a Lounge with a small library of religious books, as well as current periodicals and newspapers; small rooms for study and discussion, as well as an Information Porch with posters announcing most University events.

University Services and other Religious Activities

University Services are held every Sunday evening of term at 6.30 p.m. These are normally held in the Chaplaincy Centre, but on five Sundays during the session they are held in St Giles' Cathedral, at which the University is officially represented by members of the Staff and by the Students' Representative Council, and to which all students and members of Staff are invited. The dates of the services and the names of the preachers are advertised on the notice-boards.

Morning Prayers are held every morning of term in the Lady Yester's Aisle of Greyfriars Church from 8.40 to 8.55 a.m., and on Wednesday and Friday at the King's Buildings at 9.15 a.m.

Edinburgh University Christian Community

The Edinburgh University Christian Community is a Community of all the Christians of Edinburgh University, both staff and students, whose activities are open to all members of the University. The aim of the Christian Community is to express our given unity in Worship, Work and Witness. This is done by holding open meetings and a mid-week Service in the Kirk of the Greyfriars every Wednesday during term at 1.10 p.m. There is also a large number of Study Groups on Christian themes meeting throughout the University and Conferences are held from time to time. The activities of the Christian Community are guided by a Council representing staff and students, which is chosen in the Spring Term.

The Christian Community is not a Society. The Religious Societies continue to function, each with its own aim, atmosphere and condition of membership.

Music in the University

MUSIC STUDIOS AT 46 GEORGE SQUARE.—Eight music studios equipped with pianofortes are available on a booking rota to University students of whatever Faculty who require facilities for pianoforte practice. They are open for use at most hours of the day from 9 a.m. to 6 p.m. (Saturdays 9 a.m. to 12 noon). Their administration is in the hands of the Professor of Music. For information and reservations, apply to Dr Grierson, Reid School of Music, Park Place.

ORGAN PRACTICE.—Apart from the great Organ in the McEwan Hall, upon which public recitals and lunch-hour recitals are given from time to time, there are two smaller instruments (in the Chaplaincy Centre and in the Pollock Hall)

General Information for Students

available by arrangement to students (of whatever Faculty) requiring facilities for organ practice. Apply to the University Organist, Herrick Bunney, Esq., c/o Reid School of Music, Park Place.

UNIVERSITY CONCERTS.—Eight Orchestral Concerts and a number of Chamber Music Concerts are given each winter, normally at the Reid School of Music, by professional musicians under the direction of the Professor of Music. Admission to most of these concerts is free to all University students. A full syllabus is published each autumn.

MUSICAL INTERPRETATION CLASS.—It is open to students of any Faculty desirous of pursuing the practical study of solo or ensemble music under supervision to enrol for this class in the Faculty of Music. The class meets on Monday and Wednesday afternoons during the Autumn and Spring Terms. Apply to the Secretary, Reid School of Music.

MUSICAL SOCIETIES.—For information regarding the University Musical Society (Chorus and Orchestra) and the University Music Club, see *The Students' Handbook*.

TRAINING FACILITIES

Physical Education

The Department of Physical Education, which is in The Pollock Institute, 46 Pleasance, is under the Director of Physical Education. All matriculated students, men and women, are invited *without charge* to avail themselves of the facilities offered.

University Gymnasias

The two gymnasias are among the largest and best equipped in the country. Lockers are provided, but students must bring their own padlock and two keys. There are adequate showers and also a tea room.

The programme starts at 10 a.m. and is carried on throughout the day till 6 p.m., with the exception of 12.30 to 2 p.m. for lunch, from Monday to Friday, and from 10 a.m. to 12 noon on Saturday, for physical education. In the men's gymnasium the time-table is continuous, like the cinema, and there is no waiting. Students come and go to suit themselves, *i.e.* stay as long or short a time as they wish. The system employed is unique to this University and has been evolved to meet the needs and wishes of the students: it stimulates the brain without exhausting the body, and can be done with benefit between classes. On Saturday mornings the opportunity is given for gymnastics (horizontal and parallel bars and tumbling). In the women's gymnasium classes are held in recreative physical education, vaulting, national and Scottish country dancing (for men and women students), elementary ballet technique, basic movement, badminton and padder tennis. Times of classes are indicated on the notice boards. Attendance is purely voluntary.

A practice tennis wall is available in the inner courtyard throughout the year. A trampoline is also available.

Boxing, judo, fencing, weight-lifting, table tennis and badminton also take place in the gymnasias and students are cordially invited to join these sections of the Athletic Club.

Physical exercise for staff takes place on Tuesdays and Thursdays at 12.30 p.m. The class lasts 25 minutes.

Certificate of Physical Proficiency

Matriculated students, men and women, who wish to qualify for the Certificate must attend the gymnasias not less than 30 times during the two consecutive terms from October to March for *Men* and 25 times for *Women*. They must obtain 60 per cent. in the Basic Tests and be able to swim one length of the

Training Facilities

Swimming Bath. The Examination for the Certificate is conducted by two external examiners and is held in early June each year.

Special training for the Certificate is given during the Summer Term to those who have qualified.

Further particulars can be obtained from the Director of the Department of Physical Education or from any of the Staff at the gymnasium.

Service Training

Officers Training Corps

The Officers Training Corps is part of the Territorial Army, has the same status and is entitled to the same material and financial benefits as other Territorial Army Units. Its activities are also supervised by the Military Educational Committee of the University, which is responsible to the Senatus, and is composed of members of the teaching staff.

The object of the Corps is to train students to become Officers in the Army, either as Regular, National Service or Territorial Officers. The Corps lays special emphasis on the development of the qualities of leadership and self-confidence, in order that the qualifications of University graduates may be fully utilised when they are called up or enter the Regular or Territorial Army, and from the University point of view, in order that these qualities, together with their academic qualifications, will also enable graduates to reach the highest positions in civil life.

Efficient service in the Corps entitles a Cadet to considerable advantages if called up for National Service and concessions in his subsequent part-time service.

Commissions in the Regular Army direct from University are open to graduates. On being granted a Regular Commission, a University entrant's seniority in the Army is ante-dated. Two years' efficient membership of the Corps is a necessary qualification, so it is important that a student who is considering entering the Regular Army by way of the University Scheme should make enquiries through the Corps as early as possible in his University career, preferably in his first year. He thus can make certain that he holds all the necessary qualifications, without, however, committing himself to any irrevocable decision.

Commissions into the Territorial Army can be gained through the Corps by passing a Command Selection Board and successfully completing a two weeks' course at an Officer Cadet School. Many undergraduates, who have failed to gain a commission during their National Service, have done their part-time service in the Corps and have soon gained Territorial Army Commissions.

Training takes place on Wednesday afternoons, Thursday evenings, Saturday mornings and on various week-ends throughout the term time. During the vacations a leadership course is held in the Cairngorms at Christmas time: at Easter, Attachments to Units of the Regular Army are arranged; and in the Summer a two weeks' camp is held.

Members of the Corps are paid during training. Pay of rank is earned during all periods of continuous training, and training expense allowance is received for drill attendances. Travel to drill expenses are allowable, and an annual bounty up to £12 can be earned. After the third year this increases to £20. Uniform and equipment are issued free. At no time is a Cadet called upon to do any training that may interfere with his University studies.

The Corps is composed of a Basic Wing, Royal Artillery, Royal Engineers, Royal Signals, Infantry and a Pipe Band, and Women's Royal Army Corps Sub-units. The W.R.A.C. training is integrated with that of the technical arms as much as is possible. Cadets may choose any of these Sub-units.

Students who hold National Service Commissions are especially welcome.

Students who wish to join or to obtain further information should apply to the Adjutant, Edinburgh University Contingent, Officers Training Corps, Forrest Road Drill Hall.

General Information for Students

Officers Training Corps—Women

Women students may join the Women's Royal Army Corps Sub-unit of the Officers Training Corps. The aims of the Corps are to develop leadership qualities, to provide a background of military knowledge and, where possible, technical and specialist training. Thus students who may desire to take regular or territorial commissions in the W.R.A.C. (or other Corps in the Army open to women) are enabled to reach the required standards.

Undergraduates are enlisted as Cadets into the W.R.A.C. (T.A.), but membership of the Corps does not impose any conditions of further service in the W.R.A.C. either Regular or T.A., after leaving the University.

For further details of conditions of service, pay and allowances and training, women students who are interested should apply to Edinburgh University Contingent O.T.C., W.R.A.C. (T.A.) Sub-unit, The Drill Hall, Forrest Road, Edinburgh 1. Visitors are welcomed on Wednesdays from 2-5 p.m. and on Saturday mornings from 9.30 to 12.30 when Corps members may be seen in training.

University Air Squadron

The University Air Squadron is a Royal Air Force Unit which gives elementary flying training to students attending the University. All male students are eligible for membership except those with less than two years to complete before graduating. Vacancies for foreign nationals, for Commonwealth students, and for those who have completed National Service are limited.

Members are selected from applicants at the beginning of each session and are attested into the R.A.F.V.R. as officer cadets.

Membership normally lasts for 3 years, and the 3-year syllabus covers both ground lectures and about 150 hours of flying training. The flying training follows the standard R.A.F. basic course and includes dual and solo, cross country flying, aerobatics and night flying.

Members receive an annual bounty of £35 and are also paid for all training attendances. Uniform, kit and books are issued and extra allowances paid to cover necessary travelling expenses.

The Commanding Officer, Adjutant and Instructors are all regular R.A.F. officers.

Applications for membership should be made to the Adjutant at 16 Buccleuch Place, Edinburgh 8, during the first month of each session.

University Division, Royal Naval Reserve

Training with the Royal Naval Reserve is open to students born after 31st December 1939, or to those whose deferment from National Service extends until after 31st December 1960.

Those students who join the R.N.R. carry out a limited programme of weekly instruction at H.M.S. *Claverhouse*, Granton Square. During the summer the coastal minesweeper, H.M.S. *Killiecrankie*, is available for week-end sea training and foreign cruises, and students can carry out a 14-day training period with the Fleet.

All training carries with it full pay and allowances, travelling expenses, and a bounty of up to £11, 10s., rising to a maximum of £19 after 4 years.

The object of the division is to provide the Royal Naval Reserve with students of officer quality, with a view to obtaining permanent commissions in the Reserve; and to provide students with a part-time occupation which can be carried on long after leaving the University.

Students who wish to join, or who desire further information, should apply to the Commanding Officer, H.M.S. *Claverhouse*, R.N.R. Sea Training Centre, Granton Square, Edinburgh 5, telephone Nos. Granton 89109 and 83318.

INFORMATION ON CAREERS

Training of Teachers

The Regulations for the Preliminary Education, Training and Certification of Teachers for various Grades of Schools (Scotland), 1931, and the *Training of Teachers (Scotland) Regulations*, 1949 and 1953, may be purchased from H.M. Stationery Office, 13A Castle Street, Edinburgh.

Moray House College of Education

The College, formerly Moray House Training College, has been reconstituted under the Teachers (Training Authorities) (Scotland) Regulations 1958, and is administered by Governors representing *inter alios* the University, the Church of Scotland, local education committees and teachers serving in the south-east of Scotland.

The following particulars refer to the graduates of this, or any other British University approved by the Scottish Education Department, who enrol at Moray House.

Graduates with first- or second-class Honours in English, Economics, Geography, History, Mathematics, Science, Classics or a Modern Language, qualify as teachers of these subjects in secondary schools; ordinary graduates and graduates holding third-class Honours qualify as teachers in primary schools with endorsement for work with their special subjects in the first three years of the secondary school.

The course for ordinary or third-class Honours graduates extends over one session (October-June) preceded by three weeks' teaching practice in September. The course for Honours graduates (first or second class) will for session 1959-60 be compressed to seven months (September-March). For ordinary graduates in Agriculture, Commerce, Engineering or Music the course extends at present to two terms (October-March) or four terms if a further qualification as a teacher in a primary school is desired.

Undergraduates taking an ordinary and not an Honours degree can follow a four years' concurrent course at the College. The attention of students is directed to this course in which teaching practice (with some physical training either in Moray House or at the University) is done during the undergraduate years (mainly during vacations). Students may join this course at the end of their first or second University year, if desired.

Graduates (Ordinary or Honours) can qualify for the Diploma in Religious Education by obtaining a degree pass in Biblical Studies (either while attending the University or during their Moray House course) and taking the requisite course in Methods in Moray House. The fee for the class in Biblical Studies for students in the Faculty of Arts is covered by the annual fee, provided that the class is taken before graduation.

Students should enrol for teacher training before 1st June. A prospectus and application form can be obtained from the Principal, Moray House College, Holyrood Road, Edinburgh, 8, or (after 1st April) from the University Matriculation Office.

General Information for Students

Admission to courses of training is dependent upon students obtaining a certificate of physical fitness from an approved medical officer. Reports of the Medical Officer of the University will be accepted for this purpose. Students should take steps to ensure at an early stage in their University course that they are likely to be accepted as physically fit for employment as teachers. This precaution would enable those students who are unlikely to reach the required medical standard to make any changes necessary in their plans for their post-graduate career.

General Information for Students

Diploma in Education

Graduates undergoing training at Moray House may elect to take a concurrent course of study in the University which leads to the University Diploma and to the degree in Education. Students choosing this alternative are exempted from a part of the Moray House course. For a description of Diploma work, see the Programme of the Faculty of Arts.

Appointments Committee

Information and advice on all matters relating to careers may be obtained on application to the Appointments Secretary, Mr A. G. Acaster, M.A., or to the Assistant Appointments Secretary, Mrs Caroline Batt, M.A. A register is kept (a) of members of the University who wish assistance in obtaining permanent employment in the public services (including the Colonial Service), or in educational, technical, commercial, or other posts; and (b) of those who wish to obtain part-time or vacation employment. Admission to the register is open to all members of the University on payment of an annual registration fee of 1s. Notices of suitable vacancies are sent to those on the register, and the Appointments Secretary will on request furnish employers with the names of suitable applicants for vacancies. Students who are in doubt regarding their careers are recommended to seek advice at an early stage in their University course; first-year women Arts students are particularly advised to see the Assistant Appointments Secretary during their first term. Students who wish assistance in obtaining permanent employment should consult the Appointments Secretary not later than the autumn term of their final year, and preferably earlier. Students who wish to be tutored in academic subjects may obtain the names of suitable tutors on application to the Appointments Secretary. The Appointments Secretary and the Assistant Appointments Secretary may be consulted in the Appointments Office, 44 George Square; during term it is advisable to arrange a time and date beforehand for an interview, but during vacation this is not so necessary. Interviews can be given to students who are merely seeking information regarding careers, without necessarily wishing to be placed on the register, and indeed all students are invited to make use of the facilities which the Appointments Office offers.

INFORMATION CONCERNING THE UNIVERSITY

The Freshers' Conference

To introduce new students to the University and to various aspects of student life, the Students' Representative Council organises each year the Freshers' Conference, which is held immediately prior to the opening of the Autumn Term.

Detailed information and forms of application for the conference are circulated to students by the University. This year's Conference is to be held from Thurs. 8th to Mon. 12th October inclusive, and the registration fee will be approx. 15s. exclusive of meals and accommodation.

History of the University

In connection with the celebration in October 1933, of the 350th anniversary of the foundation of the University, there was published *History of the University of Edinburgh, 1883-1933*, edited by Dr Logan Turner, in continuation of *The Story of the University of Edinburgh* by Principal Sir Alexander Grant, 1884. In 1937 Dr Alexander Morgan edited *Charters, Statutes, and Acts of the Town Council and the Senatus, 1583-1858*.

Extra-Mural Study

The Association of Universities of the British Commonwealth

The University is a Member of The Association of Universities of the British Commonwealth, which publishes the *Commonwealth Universities Yearbook* containing an epitome of the Calendars of the various Universities of the Commonwealth with a full staff directory, and a brief record of recent developments. Copies may be obtained from the Secretary of the Association at 5 Gordon Square, London, W.C.1, the 1958 edition being on sale at £4, 4s. to the ordinary public or £2, 16s. to members of staff of the University, as well as institutions connected therewith, including Halls of Residence and Students' Unions.

The University of Edinburgh Graduates' Association

The objects of this Association (founded in 1924 as the *Alumnus Association*), are to keep its members in touch with their University and to maintain their interest in its welfare. Membership is open to graduates and other former students of the University. The fee for ordinary membership is £10, and for life membership is £100. The *Edinburgh Journal* (A. F. Giles, M.A., LL.D., Editor), published quarterly, contains accounts of the activities of Edinburgh men and of general interest. The Association also maintains the University vicarages for members. Applications for membership should be addressed to Hon. General Secretary, 40 George Square, Edinburgh 8.

Extra-Mural

This Committee is concerned with the activities of the University in the area of Scotland where voluntary bodies are unable to become of the same nature and area.

The Extra-Mural Committee is also concerned with the activities of the University in the area of Scotland where voluntary bodies are unable to become of the same nature and area.

STUDY

Mural Committee

The Mural Committee is appointed by the University of Edinburgh. It is concerned with the activities of the University in the area of Scotland where voluntary bodies are unable to become of the same nature and area.

The Mural Committee is also concerned with the activities of the University in the area of Scotland where voluntary bodies are unable to become of the same nature and area.

**FACULTY OF DIVINITY
PROGRAMME**

Dean and Principal of New College: Rev. PROFESSOR BURLEIGH

TABLE OF COURSES

Terms:—Autumn—Oct. 8 to Dec. 18, 1959

Spring—Jan. 12 to March 18, 1960

Summer—April 19 to May 20, 1960

The following table is provisional ; for the final revision see the syllabus to be posted on the notice-boards at New College. All the classes (except Arabic, the German Tutorial course and the course on The Nature of Knowledge) are held at New College.

Joint Opening Lecture at New College for all classes on Oct. 8, 1959, at 2.30 p.m.

Courses	Day of Opening	Hour	Professors and Lecturers
DIVINITY (INCLUDING PHILOSOPHY OF RELIGION AND APOLOGETICS) (p. 58)			
Junior	Oct. 12	12.20	} Rev. Professor McIntyre
Senior	Oct. 13	12.20	
CHRISTIAN DOGMATICS (p. 58)			
Junior	Oct. 9	11.20	} Rev. Professor Torrance
Senior	Oct. 13	12.20	
HEBREW AND SEMITIC LANGUAGES (pp. 58-59)			
Hebrew :			
Elementary	Oct. 15	2	} Rev. Profs. Porteous and Barr
Junior	Oct. 9	10	
Senior (Div.)	Oct. 9	9	
Advanced	Oct. 13	9	
Aramaic or Syriac	Oct. 14	9	
Post-Biblical Hebrew			
Arabic :			
Elementary (Muir Institute)	Oct. 13	2	} Rev. Dr. Montgomery Watt and Dr. Cachia
Colloquial Arabic (Muir Institute)	Apr. 19	2	
Ordinary	Oct. 13	3	
Honours	Oct. 13		
ECCLESIASTICAL HISTORY (p. 60)			
Junior	Oct. 9	9	} Rev. Professor Burleigh and Rev. A. C. Cheyne
Senior	Oct. 9	10	
Advanced:			
Course A	Oct. 12	10	
Course B	Oct. 12	9	
BIBLICAL CRITICISM (NEW TESTAMENT) (p. 60)			
Elementary (N.T. Greek)	Oct. 13	2	} Rev. Prof. Stewart, Rev. R. A. S. Barbour and Rev. H. A. Shepherd
Junior	Oct. 9	11.20	
Senior	Oct. 12	12.20	
Advanced :			
Course A	Oct. 13	9	
Course B	Oct. 9	10	
CHRISTIAN ETHICS AND PRACTICAL THEOLOGY (pp. 60-61)			
Junior	Jan. 13	12.20	} Rev. Prof. Tindal and others
Senior	Oct. 9	11.20	
ELOCUTION (p. 61)		Oct. 12	} Miss E. Balfour Brown
		9, 10 & 11.20	
NATURAL SCIENCE (p. 61)			
GERMAN TUTORIAL COURSE (Minto House: 3 terms) (p. 52)			
	Oct. 15	5	Dr. Furness
THE NATURE OF KNOWLEDGE (Old College) (p. 52)			
			Dr. Broadie

Faculty of Divinity

INTRODUCTION

Director of Studies

The Dean of the Faculty and Principal of New College is the Director of Studies. All communications requiring an answer should be accompanied by a stamped addressed envelope.

German Tutorial Course

DR FURNESS

On Mon. and Thurs., at 5 in Minto House, during the three terms. The course is intended for those students who desire to acquire a reading knowledge of German. A previous knowledge of the language is not necessary, but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book :—Barker, *Basic German for Science Students* (5th Ed. Oliver and Boyd).

The Nature of Knowledge

DR F. BROADIE

About twelve lectures at times to be arranged to suit students of different faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading :—Sinclair, *An Introduction to Philosophy* (Oxford).

This course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

Curriculum for the Ministry of the Church of Scotland

Students, who propose to enter the ministry of the Church of Scotland, are advised to consult the section on "Procedure to the Ministry" in the *Church of Scotland Yearbook* (5s., postage extra) or in the *College Calendar* (7s. 6d., postage extra), both of which may be obtained from the Church Offices, 121 George Street, Edinburgh. Full particulars are given in the *Yearbook* of entrance and exit examinations, discourses, and exercises, attendance at a foreign university, and the curriculum in Divinity.

Prospective Divinity students are recommended to include in their Arts curriculum as many as possible of the following subjects:—English, Greek, History, Latin, Moral Philosophy, and Logic and Metaphysics. If they do not include Greek in their Arts curriculum (and have had no training in classical Greek grammar or syntax) and if they do not include Hebrew in their Arts curriculum, they should attend concurrently with it the New Testament Greek and the Elementary Hebrew classes. All students who propose to graduate in Divinity must pass an entrance examination in New Testament Greek and in Hebrew. For the Divinity Entrance Bursary examination Hebrew and Greek are essential. New Testament Greek is also one of the subjects required of candidates for Divinity scholarships and fellowships.

FEES

NOTE.—Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "*Fees—1956 Regulations.*" Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degree of B.D. is £35. The annual fee for the regular non-graduate curriculum is £30. A fee of £3 is payable in respect of late payment of the annual fee.

The single-class fee, for tuition and examination for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class, £10 for a three-term class. Non-graduating students taking more than one class are required to pay the annual fee.

The fee for re-examination for subjects of the B.D. degree is £1, 10s. per subject.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November and after at the Matriculation Office, The Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon on Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree and non-graduating students are required to submit the following documents, duly completed:—

Matriculation Form A

Matriculation Form B (on first matriculation only)

Form of Account for fees (where these are payable by local authority or other public bodies).

Permit to matriculate.

X-ray Certificate

Carnegie Trust Coupon (if any).

Matriculation Forms A and B and the Form of Account for fees are available at the place of enrolment.

Students who require evidence of enrolment in order to obtain payment of their Grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree Examinations

Entries for degree examinations are received at the Matriculation Office, The Old College, as follows:—

May-June examinations 26th April 1960 (10-1, 2-4)

September examinations 15th July 1960 (10-1)

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late entry on payment of an additional late fee of £2 but in no circumstances

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will an entry be accepted if it is not made within seven days following the advertised date of entry.

Candidates for examination, whether graduating or non-graduating, must be matriculated for the academic year in which the examination falls. On entering for an examination a student must present his matriculation card. A candidate must enter for each examination at which he wishes to appear, and must state the subject or subjects in which he wishes to be examined. He must also communicate his name, along with evidence of his being qualified in terms of the regulations to the Dean at least one month before the first day of the examination.

If a candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown be allowed to appear at the subsequent diet without the payment of the re-examination fee. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their re-examination fees personally should transmit them, together with the appropriate entry form, to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch), Edinburgh".

GRADUATION

Registration and Entry

Every student who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, must present the certificates of degree passes, and must pay £1 for registration as a member of the General Council if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards¹ and their current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Graduands for the degrees of B.D. and Ph.D. are requested to appear in black or dark coloured clothes, white starched collars, and white bow neckties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown worn for the B.D. degree is one of black silk or stuff with long sleeves. The hood is black silk, lined with purple silk, and bordered with white fur. For the academic dress for other degrees see UNIVERSITY CALENDAR "Academic Costume." There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation

The Sponsio Academica at graduation is:—"Nos qui nomina subsignamus siue baccalaureatus siue magisterii siue doctoratus titulo iamiam donandi spondemus nos in omni debitae gratitudinis officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum persecuturos."²

¹ For those paying the pre-1956 fees.

² TRANSLATION:—"We, the undersigned, upon whom the degree of bachelor or master or doctor is now to be conferred promise that we will to our latest breath abide in all due loyalty to the University of Edinburgh."

**REGULATIONS FOR THE DEGREE OF BACHELOR OF
DIVINITY¹**

I. No one shall be admitted to examination as a candidate for the degree of Bachelor of Divinity (B.D.) in any Scottish university, unless he have obtained a degree in Arts either in a Scottish university or in some other university approved for this purpose by the University Court on the recommendation of the Senatus Academicus: provided always that in place of a degree in Arts any university degree or diploma, recognised by the University Court after consultation with the Senatus as equivalent to a degree in Arts, may be accepted.

II. The Senatus, with the approval of the University Court, shall have power to require that a candidate, before being admitted to examination for the degree of Bachelor of Divinity, shall have passed a degree examination or attended courses qualifying for graduation in such subjects as may be considered to be a necessary preparation for the study of Theology; or, alternatively, that he pass a special examination held by the University in such subjects.

III. The course of study for the degree of Bachelor of Divinity shall extend over at least three academical years (each academical year including at least one session of not less than twenty teaching weeks), or a period equivalent thereto; and, except as provided in Section IV hereof, attendance during not less than two of these three academical years shall be given in the University at which the candidate presents himself for examination, and the remainder may be given at another Scottish university or at a School of Theology specially recognised for the purpose of this Ordinance by the University Court.

IV. Graduates of a Scottish university qualified under Sections I and II hereof may qualify for admission to the examination for the degree of Bachelor of Divinity of that university by attendance on the Theological courses (as defined in Section V hereof) of any Scottish university, or on the corresponding courses of a School of Theology specially recognised for the purpose of this Ordinance by the University Court.

V. Four departments of study and examination shall be included in every recognised course of study for the degree of Bachelor of Divinity, namely:— 1, Old Testament Language and Literature; 2, New Testament Language and Literature; 3, Ecclesiastical History; and 4, Systematic Theology. Every candidate must have attended courses in each department extending over two academical years; and also a special course in at least one department selected by himself extending over one academical year, or a period equivalent thereto; and the examination of the candidate in such selected department or departments shall be on a higher standard than that in the other departments.

VI. The Senatus, with the approval of the University Court, shall have power to determine, from time to time, the number and character of the subjects constituting each department of study and examination, the periods of attendance upon each course which shall qualify for graduation, and the order and dates of the several examinations for the degree, and the conditions of admission thereto.

¹ University Court Ordinance General No. 6.

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VII. The examinations for the degree shall in all cases be held at the seat of the university granting the degree, and the examiners shall be the professors or lecturers of the said university in the subjects included in the examination, together with additional examiners appointed by the University Court.

VIII. Distinction may be awarded to candidates who have displayed exceptional merit in the examination of the selected department or departments in which they have attended a special course, as provided in Section V hereof.

IX. The degree of Bachelor of Divinity shall in no case be conferred upon persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

Additional Regulations ¹

I. The examination for the degree of Bachelor of Divinity (B.D.) shall embrace the following four departments:—1, Old Testament Language and Literature; 2, New Testament Language and Literature; 3, Ecclesiastical History; and 4, Systematic Theology.

II. The examination shall consist of two parts:—Part I, which shall be a test of the candidate's general knowledge of the subjects included in three of the above departments; and Part II, which shall be a test of his special knowledge of the subjects of the remaining department.

III. The subject of the examination in Part I shall be as follows:—

1. Old Testament Language and Literature.—(a) Translation and exegesis of prescribed portions of the Hebrew Scriptures, with questions on text and grammar, and pointing of one or more passages from the set books. (b) General knowledge of Old Testament History and Literature, with special knowledge of prescribed periods and books. (c) The religion of Israel in outline.
2. New Testament Language and Literature.—(a) General knowledge of the Greek New Testament, *ad aperturam* translation. (b) Special study of selected portions, their text, translation, exegesis, introduction, contents and theology. (c) General knowledge of textual criticism and history of the Canon.
3. Ecclesiastical History.—A general knowledge of prescribed periods of Church History and of a period of Scottish Church History.
4. Systematic Theology.—(a) Fundamental topics of the Philosophy of Religion, Christian Apologetics and Christian Ethics. (b) Outline of Dogmatic Theology, or a selection of cardinal doctrines.

IV. The subjects of the examination in Part II shall be the main subject of the department selected for special study, with two subsidiary subjects to be chosen by the candidate. For details, see scheme of prescribed work for the second B.D. examination.

V. In Part I the knowledge of the candidates shall be tested by three papers of two hours each, or by two papers of three hours each, in each department of study, and in Part II by two papers of three hours each in Section A, one of the same length in B, and two of the same length in C.

VI. The subjects taken by a candidate in Part I shall be the three subjects other than that in which he elects to specialise.

¹ Made by the Senatus under Section VI of the above Ordinance.

Additional B.D. Regulations

VII. Candidates entering for the examination in Part I, or the examinations in any subject embraced in Part I, must have given the necessary class-attendance in the department or subject.

VIII. Candidates, on completing their first session, may enter for the following portions of the first examination:—In Department I, Old Testament History and Literature, and the Religion of Israel. In Department II, Textual Criticism of the New Testament and translation and exegesis of prescribed books. In Department III, a prescribed period of Ecclesiastical History. In Department IV, Fundamental Topics of the Philosophy of Religion, Christian Apologetics and Christian Ethics.

IX. Failure in one department of Part I shall not entail a repetition of the examination in other departments in which a candidate has passed.

X. Candidates shall be required to pass in all departments of Part I before being admitted to the examinations of Part II.

XI. The second examination shall be passed as a whole.

XII. A candidate reaching an Honours standard in the examinations of Part II shall be awarded the degree with distinction.

COURSES OF INSTRUCTION

DIVINITY (INCLUDING PHILOSOPHY OF RELIGION AND APOLOGETICS)

REV. PROFESSOR MCINTYRE

The work is distributed over three sessions. The junior course, in the autumn of the first session, is a general introduction to theology, the philosophy of religion and apologetics. This is followed by a treatment of the Christian doctrine of history in the summer term of the second session, and by the senior course in the autumn and spring of the third, which is concerned with the doctrines of God, the World, and Man. There is a written examination at the close of each term, and the writing of an essay is prescribed during the third session.

CHRISTIAN DOGMATICS

REV. PROFESSOR TORRANCE

The work is distributed over three sessions.

The junior course deals with the Nature and Functions of Dogmatics (two days a week at 12.20 during the summer term of the first session); the doctrines of Christ, the Atonement and the Holy Spirit (four days a week at 11.20 during the three terms of the second session).

The senior course deals with the doctrines of the Church, Ministry and Sacraments (three days a week at 12.20 during the autumn term of the third session).

For advanced (special B.D.) students a seminar is held once a week during the autumn and spring terms of the third session.

HEBREW AND SEMITIC LANGUAGES

Hebrew

REV. PROFESSOR PORTEOUS and REV. PROFESSOR BARR

Elementary Class

This class, which is mainly intended for students still in Arts (see Faculty of Arts Programme—Advice on the Choice of Curricula), may also be taken as an auxiliary class by students in Divinity. It meets on Mondays and Thursdays at 2, for three terms. Text-book: A. B. Davidson, *Introductory Hebrew Grammar*.

Junior Class

Mon., Tues., Thurs. and Fri. at 10. Two hours a week are devoted to the study of Hebrew grammar, with home exercises, varied by the reading of easy prose and verse passages from the Old Testament, the other two hours to lectures on Old Testament History, Religion and Introduction.

Senior Class

Five days a week at 9. Reading and exposition of portions of the historical, poetical and prophetic books of the Old Testament. These are taken from the readings prescribed for the first B.D. examination in May and September following. R. Kittel's *Biblia Hebraica* (or parts thereof) is indispensable. Three hours a week are devoted to lectures on the history of Old Testament religion and on Old Testament Literature and Theology. The Senior Hebrew class is also in part the Graduation class in Hebrew for the Ordinary degree of Master of Arts. (See Faculty of Arts Programme.)

Advanced Class (Hebrew and Aramaic)

Four meetings a week, at a time to be arranged. This class, which is also in part the class for Honours students in the Faculty of Arts, is intended primarily for students of Divinity taking Old Testament Language and Literature as their special subject for the second B.D. examination. It includes (1) Critical and exegetical study of prescribed reading twice weekly, with exercises in Hebrew prose composition; and (2) *either* Post-Biblical Hebrew, readings twice weekly:—*Mishna, Yoma*, and excerpts from B. Halper, *Post-Biblical Hebrew Literature*; *or* East Aramaic (Syriac) and West Aramaic (Biblical and Targumic) in alternate years, twice weekly during the autumn and spring terms, the sequence being, however, subject to modification. 1959-60, Syriac and the Gospel of Mark (Peshitta).

Arabic

REV. DR. MONTGOMERY WATT, Reader; and DR. CACHIA, Lecturer

Elementary Class

Mon., Tues., Thurs. and Fri. for three terms at 2. Text-book:—Ziadeh and Winder, *Introduction to Modern Arabic*. Most of the summer term will be devoted to the study of Colloquial Arabic (Egyptian), provided there is a demand. Text-book:—Gairdner, *Egyptian Colloquial Arabic*.

Ordinary Course

Mon., Tues., Thurs. and Fri. for three terms at 3. A preliminary examination is not required for attendance at this class, but students who have not attended the Elementary class must give evidence of a knowledge of Arabic grammar, and of being able to read a simple Arabic text. The portions of the *Qur'an* prescribed for the B.D. examination are read and discussed in class during one term.

Honours Course

Mon., Tues., Thurs. and Fri. for three terms at an hour to be arranged.

Islamic Culture

The study of the religion of Islam, Islamic history and mediæval and contemporary Arabic Literature is an important part of the work of the Ordinary and Honours classes in Arabic. The lectures and tutorial classes are open to post-graduate students of Theology. For details see the Faculty of Arts Programme or consult one of the Lecturers in Arabic.

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ECCLESIASTICAL HISTORY

REV. PROFESSOR BURLEIGH; REV. A. C. CHEYNE, Lecturer and
Rev. A. I. DUNLOP, part-time Lecturer

The course extends over three sessions and deals in succession with the History of the Church during the first six centuries and with its history from the fourteenth to the early seventeenth century, followed by advanced (B.D.) instruction.

The Junior class meets four days a week in the autumn and spring of the first session, and three days a week in the summer. The Senior class meets four days a week in the autumn and spring of the third session, and is preceded by a course in later Scottish Church History, in the summer of the second session. B.D. students will, however, take the Senior class during their second session. For B.D. students who select Church History as their special subject, there will be advanced classes during the third year, details of which will be intimated at the opening of the session.

BIBLICAL CRITICISM (NEW TESTAMENT LANGUAGE, LITERATURE AND THEOLOGY)

REV. PROFESSOR STEWART; REV. R. A. S. BARBOUR, Senior Lecturer

The course extends over three sessions.

The Junior class, for students in their first session, meets four days a week during the three terms (introduction to the Gospels and Epistles; text and canon of the New Testament; readings in *St. Mark* and *Galatians*).

The Senior class, for students in their second session, meets five days a week in autumn and spring (the Apostolic age of Christianity; the *Epistle to the Romans*; the *Gospel according to St. John*; advanced introduction to the Gospels; the language of the New Testament, etc.).

The Advanced (special B.D.) class will meet four days a week in autumn and spring with the post-graduate seminar (Jewish and Greek background of early Christianity, and studies in the Pauline and Johannine theologies).

Elementary Class in New Testament Greek

REV. H. A. SHEPHERD, Assistant

This class, for those beginning the study of New Testament Greek in Arts with a view to Divinity, meets two days a week at 2 during the three terms. Text-book: H. P. V. Nunn, *The Elements of New Testament Greek*. For reference:—J. H. Moulton, *Introduction to the Study of New Testament Greek*. Grammar will be taught, exercises prescribed, and New Testament passages read.

CHRISTIAN ETHICS AND PRACTICAL THEOLOGY (INCLUDING RELIGIOUS EDUCATION AND CHRISTIAN SOCIOLOGY)

REV. PROFESSOR TINDAL; REV. D. F. S. DICK,
REV. JOHN GRAY and REV. IAN REID

The Junior class meets three days a week for the study of Christian Ethics, and more particularly of contemporary ethical questions relating to marriage and the family, social and industrial life, and peace and war; and four days a week in the summer term for the study of the life of the Church in industrial cities and in relation to the Welfare State.

Courses of Instruction

The Senior class meets five days a week in two terms for the study of Liturgics, Homiletics, Pastoral Duties, Church Music, the Government and Discipline of the Church, and Christian Missions ; and four days a week in the summer term for the study of the Principles and Methods of Religious Education.

ELOCUTION

MISS E. BALFOUR BROWN

Junior Course

The Junior class, for students in their first year, meets once each week during the autumn and spring terms. Lectures on the vocal apparatus and voice production, speech sounds and acoustics are given, and practical instruction in breath control, voice placing and resonance, enunciation and diction. The vocal aspects of conducting public worship and of scripture reading are studied.

Senior Course

The Senior class, for B.D. students in their final year and for other students in their second year, meets once each week during the autumn and spring terms. Interpretation, expression, rhythm, modulation, emphasis and gesture are studied, instruction is given in deportment and delivery and selected services from the Book of Common Order practised. The senior course includes practice in speaking and reading in the Assembly Hall.

Natural Science (Gunning Victoria Jubilee Lectures)

The purpose of this course is to promote among candidates for the ministry and ministers the fruits of study in Science, Philosophy, Language, Antiquity and Sociology. The subject will be announced later.

Theological Library (New College)

REV. DR. J. A. LAMB, Librarian

This Library, which is mainly theological, includes among its 150,000 volumes, books on philosophy, psychology, sociology, history, hymnology, church art and architecture, and archæology. The collection of pamphlets, about 30,000 in number, is specially rich in items belonging to the sixteenth and seventeenth centuries. The Library is open free to all matriculated students, and to others for an annual subscription of 10s. 6d. payable in January or June. During the academic terms the Library is open daily (except Saturdays) from 9.15 a.m. to 5 p.m., and during the vacations from 10 a.m. to 4 p.m. (except during the Christmas and New Year weeks, a fortnight in the Easter vacation and August). During July the Library is closed on Mondays.

Faculty of Divinity

SUBJECTS OF DEGREE EXAMINATIONS

FIRST B.D. EXAMINATION—May and September 1960

DEPARTMENT I: Old Testament Language and Literature

The first paper may be taken by qualified students after completing their first session

1. One paper. (a) Old Testament History and Literature:—Period of the Monarchy (Oesterley and Robinson, *A History of Israel*, vol. i, or other standard history); (b) Introduction to the Historical Books (Joshua, Judges, Samuel, and Kings) and the Minor Prophets; (c) Passage for pointing from section in *Genesis*, i-iii.

2. Two papers. Hebrew Religion and Old Testament Theology. Translation and exegesis (with questions on text and grammar) of passages from prescribed books:—*Exodus*, i-iii; *Leviticus*, i-iii; 1 *Samuel*, iii-iv; *Micah*; *Zephaniah*; *Psalms*, xlii-lvi.

DEPARTMENT II: New Testament Language and Literature

Paper I may be taken by qualified students after completing their first session

1. One Paper. (a) Principles of the textual criticism of the New Testament (including knowledge of the principal manuscripts, versions and critical editions), (b) Translation and exegesis of the *Gospel according to St. Mark*, i-iv, viii-x, xiv-xvi, with introduction and theology. (c) Translation and exegesis of the *Epistle to the Galatians*, with introduction and theology. (d) Theology of the *Epistle to the Hebrews*.

2. One Paper. (a) Translation and exegesis of the *Gospel according to St. John*, i-iv, xiii-xv, with introduction and theology. (b) Translation and exegesis of the *Epistle to the Romans*, i-viii, with introduction and theology. (c) Translation and exegesis of the Sermon on the Mount (*St. Matthew* and *St. Luke*). (d) Translation of unseen passage.

DEPARTMENT III: Ecclesiastical History

One paper may be taken by qualified students after completing a session in which the period has been studied

1. One paper. The History of the Church during the first six centuries.

2. One paper. The History of the Church during the fourteenth, fifteenth and sixteenth centuries:—The Conciliar Movement, the theological attack upon the Papacy (Dante, Marsiglio, Occam, Wiclif, Hus); Renaissance Humanism; the Reformation movements in Germany, Switzerland, Scotland and England; the Counter-Reformation. Suggested reading:—Williston Walker, *The History of the Christian Church*; James Mackinnon, *The Origins of the Reformation, Luther and the Reformation, Calvin and the Reformation*; T. M. Lindsay, *The History of the Reformation*; E. G. Rupp, *Luther's Progress to the Diet of Worms 1521*; S. M. Jackson, *Huldreich Zwingli*; H. Y. Reyburn, *John Calvin, His Life, Letters and Work*; François Wendel, *Calvin, Source et Evolution de sa Pensée religieuse*; John Knox, *History of the Reformation* (ed. Dickinson); J. A. Duke, *The Church of Scotland to the Reformation*; A. R. MacEwen, *A History of the Church of Scotland*; Lord Eustace Percy, *John Knox*; Gilbert Burnet, *History of the Reformation of the Church of England* (ed. Pocock); John Hunt, *Religious Thought in England*, vol. i; T. M. Parker, *The English Reformation to 1558*; F. M. Powicke, *The Reformation in England*; E. G. Rupp, *The English Protestant Tradition*; B. J. Kidd, *The Counter Reformation*.

DEPARTMENT IV: Systematic Theology

One paper may be taken by qualified students after completing the session in which the subject has been studied

1. One paper.

1. The Philosophy of Religion:—(a) The nature of religious language and the various methods of theology; (b) the idea of revelation; (c) the idea of God, and His relations to the world and man.
2. Christian Apologetics:—(a) the finality of Christianity; (b) the relations of natural and supernatural; (c) the relations of religion and science.
3. Christian Ethics:—Contemporary ethical problems, relating to marriage and the family, social and industrial life, peace and war.

Candidates will be examined on:—

1. The English text of the following works: Justin Martyr, *First Apology*; Augustine, *On the Trinity*, Bk. 15; Thomas Aquinas, *Summa Theologiae*, Pt. 1, qq 1-25.
2. A. Richardson, *Christian Apologetics*; and F. R. Barry, *The Relevance of Christianity*.
3. The subjects dealt with in the class lectures for which the recommended reading is as follows: A. B. Bruce, *Apologetics*; C. C. J. Webb, *Studies in the History of Natural Theology*; W. P. Paterson, *The Rule of Faith*; A. E. Taylor, *The Faith of a Moralist*, vol. 1; J. Baillie, *The Interpretation of Religion*; C. Welch, *The Trinity in Contemporary Theology*; C. Anderson Scott, *New Testament Ethics*.

2. One paper. Dogmatics.—The whole system of Christian doctrine in connection with the Biblical basis and the ecclesiastical development of dogma with special reference to the doctrines of Christ, the Atonement, the Spirit, the Church and Sacraments.

A knowledge of the following works is required:—Athanasius, *Orations against the Arians*, 1-4; Augustine, *The Trinity*; Calvin, *Institutes*, 1-4; H. R. Mackintosh, *The Doctrine of the Person of Christ*, pp. 122-284; *The Christian Experience of Forgiveness*; Emil Brunner, *The Mediator*; Karl Barth, *Church Dogmatics*, 4, 1.

A knowledge of the subjects as treated in class lectures is also presupposed, supplemented by a study of the following:—*The Ecumenical Councils*; *The Evangelical Confessions of the Lutheran, Reformed and Anglican Churches*; Denzinger, *Enchiridion Symbolorum*; Heppe, *Reformed Dogmatics*; Emil Brunner, *Dogmatics*, 1 and 2; Karl Barth, *Church Dogmatics*, 1 and 4; J. N. D. Kelly, *Early Christian Doctrines*; O. C. Quick, *The Doctrines of the Creed*; James Denney, *The Death of Christ, The Christian Doctrine of Reconciliation*; P. T. Forsyth, *The Person and Place of Jesus Christ*; S. Cave, *The Doctrine of the Person of Christ*; J. K. Mozley, *The Doctrine of the Atonement*; D. M. Baillie, *God was in Christ*; T. H. L. Parker, *Essays in Christology for Karl Barth*; Oscar Cullmann, *The Christology of the New Testament*; G. S. Hendry, *The Holy Spirit in Christian Theology, The Gospel of the Incarnation*; C. R. B. Shapland, *The Letters of Athanasius concerning the Holy Spirit*; Anselm, *Cur Deus Homo*; John McIntyre, *St Anselm and his Critics*; W. Niesel, *The Theology of Calvin*; R. S. Wallace, *Calvin's Doctrine of the Word and Sacrament*; D. M. Baillie, *The Theology of the Sacraments*; Robert Bruce, *The Mystery of the Lord's Supper*; T. F. Torrance, *Royal Priesthood, Kingdom and Church, Conflict and Agreement in the Church*.

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SECOND B.D. EXAMINATION—May-June 1960

DEPARTMENT I: Old Testament Language and Literature

1. Three papers. The subjects prescribed for the first B.D. examination on a higher standard.

2. One paper. Translation, criticism and exegesis of *Jeremiah*, i-xx, or *Job*, i-xiv, translation *ad aperturam*, and translation from English into Hebrew.

3. Two papers. One subject from each of the two following groups:—

1. (a) Post-biblical Hebrew:—*Mishnah, Yoma*; B. Halper, *Post-biblical Hebrew Literature*, extracts i-v, xiv, xviii, xxi.

(b) Aramaic:—*Daniel*, ii-vii; Merx, *Chrestomathia Targumica*, *Genesis*, i-iv, xxiv, and *Jonah*.

(c) Syriac:—*Gospel of St. Mark* (Peshitta).

(d) Arabic:—*Qur'ān*, Surahs 1, 12, 19, 73, 80, 81, 82, 85, 87, 91, 96, 99, 101, 105, 111.

2. (a) History of the Old Testament text, including early Hebrew inscriptions (Mesha, Siloam, etc.) and history of the ancient versions of the Old Testament (Greek, Latin, Syriac and the Targums) and history of the Old Testament canon (Works of Buhl, Ryle, Roberts, Würthwein, etc.).

(b) Hebrew prophecy. Suggested reading:—Lods, *The Prophets and the Rise of Judaism*; Skinner, *Prophecy and Religion*; Welch, *The Religion of Israel under the Kingdom, Prophet and Priest in Old Israel*, *Jeremiah: his Time and his Work* and *Kings and Prophets of Israel*; Guillaume, *Prophecy and Divination*; T. H. Robinson, *Prophecy and the Prophets in Ancient Israel*; R. B. Y. Scott, *The Relevance of the Prophets*; Cook, *The Old Testament: a Reinterpretation*, chap. x; A. R. Johnson, *The Cultic Prophet in Ancient Israel*; H. H. Rowley, *The Nature of Prophecy in the Light of Recent Study* (in *The Servant of the Lord and other Essays on the Old Testament*); *Record and Revelation* (ed. Wheeler Robinson); and *The Old Testament and Modern Study* (ed. Rowley).

(c) The religious ideas and institutions of Israel. Suggested reading:—Oesterley and Robinson, *Hebrew Religion: its Origin and Development*; Lods, *Israel*; W. R. Smith, *The Religion of the Semites*; Pedersen, *Israel*; G. B. Gray, *Sacrifice in the Old Testament*; Oesterley, *Sacrifice in Ancient Israel*; Rankin, *The Wisdom Literature of the Old Testament*; Snaith, *The Distinctive Ideas of the Old Testament*; H. W. Robinson, *Inspiration and Revelation in the Old Testament*; Bentzen, *King and Messiah*; S. Mowinkel, *He that Cometh*; A. R. Johnston, *Sacral Kingship in Ancient Israel*; *The People and the Book* (ed. Peake); *Record and Revelation* (ed. Wheeler Robinson); and *The Old Testament and Modern Study* (ed. Rowley).

Subjects of B.D. Exams.

DEPARTMENT II: New Testament Language and Literature

1. Two papers. The subjects prescribed for the first B.D. examination on a higher standard.

2. One paper. Critical and exegetical study of 2 *Corinthians*, i-vii; *James*; 1 *John*; *Revelation*, i-vii; in each case with introduction and theology.

May-June 1961.—Critical and exegetical study of 1 *Corinthians*, x-xvi; *Acts*, i-viii; *Colossians*; 1 *Peter*; in each case with introduction and theology.

3. Two papers. One subject from each of the following groups:—

1. (a) General introduction to the New Testament, with special introduction to the Synoptic Gospels. (New Testament *Introductions* of Moffatt, Jülicher, Peake, McNeile; Streeter, *The Four Gospels*.)

(b) Theology of the New Testament, with special study of the Synoptic Teaching of Jesus. (A. Richardson, *Introduction to the Theology of the New Testament*; Curtis, *Jesus Christ the Teacher*; W. Manson, *Jesus the Messiah*; T. W. Manson, *The Teaching of Jesus and The Sayings of Jesus*; Dalman, *The Words of Jesus*; Dodd, *Apostolic Preaching and The Parables of the Kingdom*; Denney, *Jesus and the Gospel*; Rawlinson, *The New Testament Doctrine of the Christ*; Taylor, *Jesus and His Sacrifice*; Schweitzer, *Quest of the Historical Jesus*; Howard, *Christianity according to St. John*; Kennedy, *Theology of the Epistles*; C. Anderson Scott, *Christianity according to St. Paul*; Stewart, *A Man in Christ*.)

2. (a) Textual criticism of the New Testament, its materials, principles and history, with special study of the uncial MSS., and of the work of Westcott and Hort and subsequent critics. (Works by Nestle, Kenyon, Lake, Gregory and Streeter, and the introduction by Westcott and Hort to their text.)

(b) The Greek of the New Testament, the Septuagint, and the Papyri. (Works by Moulton, Milligan, Robertson, Swete, Thackeray, Ottley, Deissmann; M. Black, *An Aramaic Approach to the Gospels and Acts*.)

(c) History of the New Testament Canon, with knowledge of the patristic sources. (Works by Westcott, Harnack, Gregory Jülicher, Souter.)

(d) The background of the New Testament (Jewish and Gentile). Recommended books:—Schürer, *History of the Jewish People in the Time of Jesus Christ*, vols. i-v; G. F. Moore, *Judaism*; Charles, *Eschatology*; Oesterley, *Apocryphal Literature*; Torrey, *Apocryphal Literature*; Rankin, *Wisdom Literature of the Old Testament*; Jackson and Lake, *Beginnings of Christianity*, vols. i-ii; H. A. A. Kennedy, *St. Paul and the Mystery Religions*; J. Weiss, *History of Primitive Christianity*, vols. i-ii; W. L. Knox, *Some Hellenistic Elements in Pauline Christianity*; Bevan, *Jerusalem under the High Priests*; McGiffert, *History of Christianity in the Apostolic Age*; Wade, *New Testament History*; and other works.

(e) The Apostolic Fathers and the early Greek apologists, in the originals, with knowledge of their teaching and their use of Scripture.

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DEPARTMENT III: Ecclesiastical History

1. Two papers. The subjects prescribed for the first B.D. examinations, on a higher standard.

2. One paper. Selected texts relative to the periods studied:—Gwatkin, *Selections from Early Christian Writers*; Kidd, *Documents of the Reformation*, pp. 1-79, 581-651.

3. Two papers. One subject from each of the following groups, to be studied on the basis of original sources:—

1. (a) The Church and the Roman Empire, with special knowledge of the period 313 to 395. Prescribed text:—Eusebius, *Vita Constantini*.
(b) The History of the Papacy, especially from 325 to 601. Prescribed texts in Mirbt, *Quellen zur Geschichte des Papsttums* (5th ed.), sections 107-195, 201-213.
(c) The Arian Controversy, with special knowledge of the role of St. Athanasius. Prescribed text: Athanasius, *Contra Arianos*, i and ii.
(d) The Life, Work and Controversies of St. Augustine. Prescribed text:—*Confessions*, i-ix.
(e) The Celtic Church to 664. Prescribed texts: Adamnan, *Vita St. Columbae*; and relative passages in Bede, *Historia Ecclesiastica Gentis Anglorum* (ed. Plummer).
2. (a) The Pre-Reformation Papacy. Marsiglio of Padua, *Defensor Pacis*; Wiclif, *De Ecclesia*.
(b) The Reformation in its Lutheran and Calvinistic form. Luther, *Reformation Treatises*, and Calvin, *Institutes of the Christian Religion*.
(c) The Scottish Reformation. John Knox, *Works* (ed. David Laing).
(d) The conflict between Presbytery and Prelacy in Scotland. *Records of the Kirk of Scotland* (ed. Peterkin); R. Baillie, *Letters and Journals*; A. F. Mitchell, *The Westminster Assembly*.
(e) The History of the Expansion of Christianity from A.D. 1800. Warneck, *History of Modern Missions*; Robinson, *History of Missions*; K. S. Latourette, *A History of the Expansion of Christianity* (vols. iv-vii).

DEPARTMENT IV: Systematic Theology

1. Two papers. 1. Philosophy of Religion:—the subjects prescribed for the first B.D. examination on a higher standard and with knowledge of the original texts prescribed for that examination. 2. Dogmatics:—The subjects prescribed for the first B.D. examination on a higher standard.

2. One paper. Prescribed books:—1. Philosophy of Religion and Apologetics. Anselm, *Proslogion*; Calvin, *Institutio* lib. i; Hume, *Dialogues concerning Natural Religion*; Kant, *Critique of Pure Reason, Transcendental Dialectic*; Kierkegaard, *Unscientific Postscript*, pp. 1-224; K. Barth, *The Doctrine of the Word of God*, i, 1.; J. Baillie, *The Idea of Revelation in Recent Thought*; H. Kraemer, *Religion and the Christian Faith*; 2. Dogmatics: Irenaeus, *Adversus Haereses*, lib. iii; Athanasius, *De Incarnatione*; Augustine, *Enchiridion*; Anselm, *Cur Deus Homo*; Calvin, *Institutio*, lib. ii; Schleiermacher, *The Christian Faith*, Introduction; Kierkegaard, *Philosophical Fragments*.

Subjects of B.D. Exams.

3. Two papers. One subject from two of the following groups:—

1. Philosophy of Religion:—(a) History of religion, with special knowledge of a particular field; (b) history of the philosophy of religion, with special knowledge of a particular period; (c) the psychology of religion; (d) the modern theistic debate; (e) the relations of religion and scientific thought; (f) Christian apologetics, with special knowledge of a particular field of debate or a particular historical period; (g) selected works of any one of the following theologians: Reinhold Niebuhr, Berdyaev, Tennant, Brunner.
2. Dogmatic Theology :—(a) Biblical theology as the basis of dogma ; (b) the Creeds and Confessions ; (c) Christology and Soteriology ; (d) the doctrine of the Church and Sacraments ; (e) Eschatology.
3. Christian Ethics :—(a) The fundamental principles of Christian ethics, studied historically; (b) the social teaching of Christianity; (c) the history of Christian social teaching, with special use of Troeltsch, *The Social Teaching of the Christian Churches*.

Candidates are required to intimate to the Professor in the Department the two subjects from groups 1, 2, 3 of Section 3, in which they propose to specialise, when further information will be given.

Timetable of B.D. Examinations, 1960

FIRST EXAMINATION (Examination Hall, New College)

Subject	Diet		Hours
	May	Sept.	
O.T. Language and Literature	31	27	9-11 11.15-1.15 2.30-4.30
	<i>June</i>		
N.T. Language and Literature	1	28	9-12 2.30-5.30
Ecclesiastical History	2	29	9-12 2.30-5.30
Systematic Theology:—			
Philosophy of Religion	3	30	9-12
Dogmatics	3	30	2.30-5.30

SECOND B.D. EXAMINATION (Examination Hall, New College)

The examinations will begin on Tuesday, 31st May 1960, at 9 a.m., and will be continued on the following days. The time-table will be posted at New College with details of examinations in all departments.

**FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS,
PRIZES AND BURSARIES**

General Conditions of Candidature, Tenure and Payment

Both men and women students are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

No prize may be awarded more than once to the same person except by the special recommendation of the Faculty.

Except where special conditions of entry are given under the individual awards below, entries for fellowships and scholarships must be made to the Dean at least a month before the examination; and for entrance bursaries likewise to the Secretary, New College, by 15th September.

Except where otherwise provided by deed of foundation or by resolution of the Senatus, fellowships and scholarships are tenable only by persons who devote their time to post-graduate advanced study or research.

The holders of all fellowships, scholarships and bursaries must submit to the Dean in October and in May evidence that they have prosecuted advanced study or research or otherwise fulfilled the conditions of tenure of their awards and have made satisfactory progress.

Payments of fellowships, scholarships, bursaries and prizes (except those in the hands of agents outside the University) are made by the University Accountant as follows:—1st instalments from 15th October; 2nd instalments from 19th May for fellowships and scholarships.¹ The applicants for payment must present certificates signed by or for the Dean attesting their regular attendance at the proper classes, or otherwise that they have fulfilled the necessary conditions. Those who do not apply within three months to the University Accountant for the instalments due to them will be regarded as having resigned, but formal intimation of resignation should be tendered to the Dean and to the University Accountant.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES AND PRIZES

I

Entrance Bursaries

The following entrance bursaries are tenable in the Faculty of Divinity:—

(a) Entrance bursaries awarded by New College and the Faculty of Divinity.

A list of Church of Scotland New College Bursaries and Scholarships, tenable in the united Faculty of Divinity, is given in the *New College Calendar* or the *Year-Book of the Church of Scotland*.

The other Faculty of Divinity bursaries are shown below under "Other Fellowships, Scholarships, Bursaries and Prizes" and are starred.

The examination for both New College and Faculty of Divinity entrance bursaries will be held in New College as follows:—

1959

October	6.	11-12.30.	English Bible.
"	"	2.30-4.	Hebrew.
"	7.	9-10.30.	New Testament Greek.
"	"	11-12.30.	English Essay.
"	"	2.30-4.	Introduction to Theological Studies.

¹ Payments are made without deduction of Income Tax but are assessable if not exempted under Section 458 of the Income Tax Act 1952:—"Income arising from a scholarship held by a person receiving full-time instruction at a university, college, school, or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

Fellowships, Scholarships and Bursaries

Subjects of examination:—

1. English Bible.—General knowledge and appreciation, with special reference to *Genesis, Exodus, Isaiah*, i-xxxix, *Gospel according to St. Matthew*, 1 and 2 *Corinthians*, 1 and 2 *Thessalonians*.
2. Hebrew.—Davidson-M'Fadyen, *Hebrew Grammar*, sections 1-30, with all the exercises from Hebrew into English and English into Hebrew.
3. New Testament Greek.—Moulton, *Introduction to Study of New Testament Greek* (Epworth Press), pp. 1-224. Translation of Greek text of *Gospel according to St. Mark*; *Acts*, i-xvi (with introduction and notes as in Blunt, Clarendon Bible); *James*. Short passage from the prescribed portions for re-translation into Greek.
4. An essay.
5. Introduction to Theological Studies.—No books are prescribed, but the following indicate the kind of material on which the paper will be based:—Bevan, *Christianity* (Home University Library); Mackay, *Preface to Christian Theology*.

(b) Entrance Bursaries awarded by the University

Ardvorlich	McDiarmid
Beattie (John)	Macdonald (William)
Browne	Mackenzie (Stornoway)
Bruce of Grangehill	Mackinnon
Campbell (Robert Mackenzie)	Maclaurin
Chrystie	Mann
Fairbairn (James)	Marshall
Grant	Maule
Jamieson	Penman
Jardine of Thorlieshope	Sibbald

(c) Entrance Bursaries awarded by Outside Bodies

Abercromby	Lewis
Borderers (Edinburgh) Association (c)	Millar Bequest
Caithness (Edinburgh) Association	Milligan-Paulin
Clan Mackay Society (a), (b), (c)	Miners' Welfare National
Cowan House (a)	Scholarships and
Dunbar	Exhibitions
Gillan	Nairn
Highlands and Islands Education Trust	Newlands (John)
(a), (b), (c), (d)	Rackstraw (Marjorie)
Inverness-shire (London) Association	Robertson (Archibald)
Lanarkshire (Upper Ward)	

II

Fellowships, Scholarships and Prizes included in the Edinburgh University (Fellowships, Scholarships and Bursaries) Scheme, 1953

POST-GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Regulations

The following awards will be offered from time to time in the Faculty of Divinity. Unless otherwise stated awards of fellowships and scholarships will normally be made in the first place for a period of two years, with a possible extension of one year at the discretion of the Senatus on good cause shown.

Unless the Senatus shall decide otherwise none of the fellowships and scholarships shall be tenable with any paid employment. The values of the awards are stated approximately but the values of fellowships and post-graduate scholarships may be supplemented on good cause shown.

Faculty of Divinity

The Senatus at its discretion may permit more than one post-graduate award to be held by the same person at one time.

Aitken Fellowship.—£300 p.a. This fellowship is awarded by competitive examination in such theological subjects as the Senatus may appoint, to a Master of Arts of the University who is attending classes in the Faculty of Divinity. The holder must study such theological subjects as the Senatus may appoint at one or more of the universities of Germany or elsewhere furth of Scotland as the Senatus may approve.

1957, J. S. S. Armour, B.A., B.D.

Black (C. B.) Scholarships in New Testament Greek.—See Faculty of Arts Programme.

Blackie (John and Elizabeth Stuart) Greek Theological Fellowship.—£300 p.a. The fellowship is awarded by competitive examination to a Master of Arts of the University who is a *bona fide* student of theology, studying for the ministry of any of the Scottish Presbyterian Churches and who has attended a course of regular theological study for not more than one full session. Candidates will be examined on their general knowledge of Greek in so far as to be able to read an easy book of common prose *ad aperturam* and to translate into good English; and on their knowledge of the chief points of the ecclesiastical and political history of the Greek people from the commencement of the Christian era to the latest date. In the event of equality in the examination between a competitor who has graduated with honours in Arts and a competitor who has graduated without such honour, the examiner shall recommend to the Senatus the competitor who has graduated with such honours. The Senatus may require the holder either (1) to reside for at least 5 months in or near the city of Athens, to attend regularly historical or philosophical lectures in the University of Athens and to undergo regular instruction in modern Greek; or (2) to reside for at least 3 months in or near the city of Athens and there to undergo regular instruction in modern Greek, and to reside for at least 3 months in or near the city of Jerusalem and there to undertake the study of Biblical Antiquities. The Senatus may also require the holder to deliver a public lecture in the University or elsewhere in Edinburgh on any of the subjects studied by him in Athens or Jerusalem.

1958, A. A. S. Reid, M.A.

Bruce of Grangehill Scholarships.—See Faculty of Arts Programme.

Divinity Fellowship.—

1959, W. J. Beaumont, M.A.

Glover, Kidd and Maxton Fellowship.—£300 p.a. The fellowship is awarded by competitive examination in such theological subjects as the Senatus may appoint to a Master of Arts of any Scottish university who has completed his theological course with a view to becoming a minister of the Church of Scotland, and who has attended the University during at least the last session of his said course.

1959, J. H. I. Watt, M.A., B.D..

Gray (Simon) Prizes.—See Faculty of Arts Programme.

Gunning Victoria Jubilee Prizes.—Five prizes (or fewer, at the discretion of the Senatus) of (a) £50, (b) £40, (c) £30, (d) £20, and (e) £10; awarded annually on the basis of the B.D. examination to members of the Church of Scotland and of other Scottish Churches accepting the Confession of Faith, who are Bachelors of Divinity of the University of not more than two years' standing at the close of the session in which the examination takes place, or who have attended not less than two classes in Divinity in the University and have completed their theological curriculum within two years of the said session.

1959, J. H. I. Watt, M.A., B.D. (1); R. A. Anderson, M.A., B.D.

Fellowships, Scholarships and Bursaries

Keith Fellowship.—Two fellowships of £100 p.a. awarded to a Master of Arts of any university approved by the Court, who has completed two and not more than two sessions of his divinity course in any Scottish university. The subjects of the examinations shall be such as in the opinion of the Senatus will encourage study of the Greek language, ancient and modern.

Pitt Club Fellowship.—£250 p.a. The fellowship is awarded by competitive examination in such theological subjects as the Senatus may appoint to a Master of Arts of any of the Scottish universities, who has given regular attendance as a student in the Faculty of Divinity for not less than three complete sessions and who is in course of studying for the ministry of the Church of Scotland.

1957, D. S. M. Hamilton, M.A., B.D.

Vans Dunlop Scholarship in Hebrew and Oriental (Semitic) Languages.—*See Faculty of Arts Programme.*

III

Other Fellowships, Scholarships, Bursaries and Prizes

N.B.—The values of fellowships, scholarships, bursaries and prizes are stated approximately.

Alexander (Girvan) Bursary.—A Girvan Bursary, value £70, will be awarded annually for one year to a student of Divinity who is a native of the Parish of Girvan and studying at the University of Edinburgh or any other Scottish university; where there is no student satisfying these qualifications, the Bursary may be awarded to any student of Divinity within the bounds of the Presbytery of Ayr studying at the University of Edinburgh or any other Scottish university. Applications to be sent to the Clerk of the Presbytery of Ayr, Manse of Straiton. Maybole, not later than the 30th September each year.

***Archibald or M'Guffie Bursary.**—£35 p.a. A preference is given to natives of the parishes of Dollar and Tillicoultry, Clackmannanshire, and of the parish of Whithorn, Wigtownshire, and to students who have at any time been in regular attendance for a period of not less than one year at a school in any of the said parishes.

1957, W. E. Smith, B.Sc.

Barty Memorial Prize.—£30; awarded annually on the results of the Church of Scotland Entrance Board examination for proficiency in Hebrew and Hellenistic Greek to an entrant to a Divinity Hall of any Scottish university.

***Bayne Bursary.**—£39 p.a. Patrons, the Society for the Benefit of Sons and Daughters of the Clergy of the Church of Scotland. Apply to D. G. M'Gregor, W.S., 117 Hanover Street, Edinburgh.

1957, W. J. Beaumont.

Blair Bursaries.—Two bursaries. (a) £16 p.a. for one year (or longer, at the discretion of the Patrons); awarded to pupils of George Heriot's School who have become students of Divinity in the University. Patrons, the Governors of George Heriot's Trust. (b) £18 p.a. for 3 years; awarded to students in Divinity whether graduates or not. Patrons, the Principal and the Professors of Divinity, Ecclesiastical History, and Hebrew.

***Brown Bursaries.**—Three bursaries of £19 p.a.; restricted to students who require pecuniary aid in obtaining a university education. A preference is given to members of the Church of Scotland.

1958, Margaret R. Allan, M.A., J. B. A. Bell, M.A., R. W. J. MacDermott, B.A.

***Buchanan Bursary.**—£45 p.a. Patrons, the Town Council of Edinburgh. Apply to the Principal, New College, by 16th September.

1958, W. D. McBride.

Faculty of Divinity

Buchanan (R. C.) Prize in Sacred Elocution.—£3 ; awarded annually to a student in the Elocution class for excellence in the public reading of the Bible.
1959, D. M. Stephen, M.A.

Burt Prizes.—Two prizes of (a) £3 and (b) £2; awarded annually to students in the Elocution class (second year).
1959, R. D. Buchanan-Smith (a); N. Macleod (b).

***Cobb Bursary.**—£70 p.a.; awarded to a student who intends to become a minister of the Church of Scotland.
1958, D. G. Simmers, M.A., B.A.

Crombie Scholarship.—£50 for one year, tenable with other bursaries or scholarships; awarded annually on the basis of an examination to a Master of Arts of a Scottish university with first-class Honours in Classics. Candidates may be of any religious denomination and need not be students in Divinity. Apply for particulars to Menzies & Thomson, W.S., 54 Castle Street, Edinburgh 2; and for entry to the Rev. Principal Black, St. Mary's College, St. Andrews, by 1st May.

Cunningham (New College) Prize Fellowships.—Awarded on the aggregate class marks of the full course.
1959, A. J. Roy, B.Sc., M.A., B.D.

Davidson Prize.—£10 ; awarded annually to a student in the Junior Hebrew class.
1959, D.G. Simmers, M.A., B.A.

Dods Prize.—£7 ; awarded annually to a student in the Senior Biblical Criticism (New Testament) class.
1959, Elizabeth B. F. Kinniburgh, M.A., and D. W. D. Shaw, B.A., LL.B.

Eadie Prizes.—Two prizes of £7; awarded annually to students in (a) the Junior Biblical Criticism (New Testament) and (b) the Junior Hebrew classes respectively.

1959, R. W. J. Macdermott, B.A., and D. G. Simmers, M.A., B.A. (a) ; J. Spencer, M.A. (b).

***Ettles Bursaries.**—Three bursaries of £64 p.a.; one awarded annually to a student who has passed all the examinations necessary for the M.A. degree.
1957, R. A. Anderson, M. A., D. F. Huie, M.A.

Ettles Prizes.—Four prizes of (a) £10, (b) £10, (c) £10 and (d) £7; awarded annually to students (a) in the Junior, and (b) in the Senior Biblical Criticism (New Testament) class, and (c) and (d) in the Junior Church History class.

1959, J. Spencer, M.A. (a); R. N. Brown, B.A. (b); J. Andrew, A. Langdon, M.A., LL.B. ; and J. Spencer, M.A. (c, d).

Fullarton Prizes.—Two prizes of (a) £10 and (b) £7; awarded annually to students in the Senior Hebrew class.

1959, D. W. D. Shaw, B.A., LL.B. (a); R. N. Brown, B.A. (b).

Gaelic (Church of Scotland) Bursary.—£15 p.a. from the date of the award till the end of the holder's Divinity curriculum; awarded on the basis of an examination in Gaelic to students already in or about to enter the Faculty of Divinity of any Scottish university who must satisfy the Trustees that they intend to become ministers of the Church of Scotland. Apply for information as to the date of the examination to Menzies & Thomson, W.S., 54 Castle Street, Edinburgh 2. This bursary is at present in abeyance.

***Grierson Bursaries.**—Three bursaries of £56 p.a.; restricted to students who require pecuniary assistance in obtaining a university education. A preference is given to natives of the parishes of Crawford and Crawfordjohn, Lanarkshire.

1957, D. B. Forrester, M.A., G. F. R. Henderson, D. W. D. Shaw, B.A., LL.B.

Fellowships, Scholarships and Bursaries

Hepburn Bursaries.—Three bursaries of £25 for 3 years; awarded on the basis of the Divinity Bursary examination with a supplementary paper on the Gospels, to Divinity students of the Church of Scotland. A preference in the award of one Hepburn bursary is given to Gaelic-speaking students. Patrons, the Presbytery of Edinburgh. Apply for particulars to the Rev. C. A. Smith, M.A., 14 Lee Crescent, Portobello, by 1st October. One or more open annually.

Hepburn Prize.—£20; awarded annually for an essay by a student in the Faculty of Divinity. Apply for particulars to the Rev. C. A. Smith, M.A., 14 Lee Crescent, Portobello.

Honyman Gillespie (William) Scholarship.—This Scholarship, of £400 per annum, is open to graduates in Theology of a Scottish University who will engage in full-time Theological studies or research. Evidence of progress may be required by production of a thesis. Further particulars may be obtained from Messrs Todds, Murray and Jamieson, W.S., 66 Queen Street, Edinburgh 2.

Hope Prizes.—Two prizes of (a) £10 and (b) £5; awarded annually to students in the Senior Church History class.

1959, Elizabeth B. F. Kinniburgh, M.A., and W. Serle, O.B.E., M.B., Ch.B. (*equal*).

***Hunter Bursaries.**—Two bursaries of £70 p.a.; awarded to students belonging to the Church of Scotland who have completed their first year in Divinity. A preference is given to students who are ordinarily resident in the parishes of Temple or Cockpen, Midlothian, or who have attended Geology and Chemistry classes.

1957, Elizabeth B. F. Kinniburgh, M.A., and R. Graeme Brown.

Jeffrey Travel Prizes.—Four prizes (if the standard reached is satisfactory) of £50; awarded annually on the basis of examinations at the close of the winter session, respectively for (a) Divinity, (b) Church History, (c) Hebrew, (d) Biblical Criticism, to the four students most distinguished in the respective examinations who intend to become ministers of the Church of Scotland. A preference is given to first- and second-year students. The holders must continue the study of the subject to which the prize is attached during the ensuing summer in the Faculty of Divinity of another university or in a theological institution as the Senatus may approve.

1959, D. F. Huie, M.A.; W. Serle, O.B.E., M.B., Ch.B.; D. W. D. Shaw, B.A., LL.B.

Junior Divinity Prize.—£5; awarded annually to a student in the Junior Divinity class.

1959, D. G. Simmers, B.A.

***King William III Bursaries.**—Two bursaries of £64 p.a.; awarded to Masters of Arts who have completed their first year in Divinity in the University. 1958, R. N. Brown, B.A.

Knockgerran (Mackie) Bursary.—£50 p.a. for 3 years; tenable by students during their Divinity course who intend to become ministers of the Church of Scotland. A preference is given to students who are natives of or whose parents or parent reside in, the parish of (1) Dailly, (2) Barr, or (3) Girvan; whom failing, to students who are natives of, or whose parents or parent reside in, the Presbytery of Ayr, more especially the district of Carrick. Patrons, the Presbytery of Ayr. Apply to D. & I. Dunlop, Solicitors, 2 Barns Street, Ayr, by 1st September.

***Lockerby Bursary.**—£30 p.a. for 3 years; restricted to students who intend to become ministers of the Church of Scotland.

1957, J. R. D. Swan.

Logan (Alexander) Bursary.—The Bursary is available for award annually to a student entering the final year in Divinity, on his previous record or on the result of a special examination in the subjects of his previous course.

Faculty of Divinity

Mackenzie Prize.—£25; awarded annually for an essay to a student in the Divinity Hall of any Scottish university who intends to become a minister of the Church of Scotland; or to a student at any theological school recognised as qualifying for the ministry of that Church, and to a probationer of that Church within a year of completing his studies. The subject of the essay will be announced later. Apply for particulars to J. & J. Ogilvie, Solicitors, 13 Albert Square, Dundee.

Mackintosh Prizes.—Two prizes of (a) £3 and (b) £2; awarded annually to students in the Elocution class (third year).

1958, F. C. Tollick, B.Sc. (a); G. M. Simpson, M.A. (b).

M'Kissack Bursary.—£40 p.a. for 4 years; open (1) to students, male or female, of Medicine, Arts or Divinity, studying or about to commence his or her studies at any college, university, training institute or divinity hall to be approved by the Trustees, with the view to preparing himself or herself for Christian mission work amongst the Jews, or (2) to men or women who have already completed their university course but who desire the opportunity to study the language of the country in which they propose to work. Candidates of the name of M'Kissack, or natives of, or residents in, the Counties of Moray and Nairn, have a preferential claim.

For further particulars apply to Lamb & Co., Solicitors, Nairn, before 30th September.

Maclaine (Gillian) Bursaries.—Two bursaries of £75 p.a. for three years; awarded to Gaelic-speaking students in Arts and Divinity who are preparing to enter the ministry of the Church of Scotland. The competition will be held in October. Apply to Rev. Angus J. Macvicar, M.A., Manse of Southend, Campbeltown, by 15th August.

1954, C. I. Maclean.

Maclean Scholarship in Semitic Languages.—£400 for one year; awarded every second year on the basis of an examination to a Master of Arts of any Scottish university who has completed his courses in Divinity in any Scottish university and who is preparing to enter the ministry of the Church of Scotland (any Church being included in that description with which the Church of Scotland, as presently constituted, shall be united). The examination is held in June in Glasgow or at another university by arrangement. Apply to the Registrar of the University of Glasgow, from whom further particulars are obtainable, by 1st May.

***M'Lurg and Penman Bursary.**—£26 p.a.; restricted to students who require pecuniary aid in obtaining a university education. Patrons, the heirs of Captain Robert Gordon Gilmour of Craigmillar (1st and 3rd presentations), and the Lord Dean of Guild of Edinburgh (2nd presentation).

Miller Bursaries.—These bursaries are tenable for not more than four years at any theological hall, university or training centre in Scotland by young men or women who shall study Divinity for at least one year and who intend to devote themselves entirely to Foreign Missions. A preference is given to those intending to become ordained missionaries and to students from the Counties of Caithness, Sutherland, Ross, Orkney and Shetland. Trustees, the Magistrates and Ministers of Thurso. Apply to R. J. Blois-Brooke, Solicitor, Thurso.

Milligan (Oswald) Prize.—Open annually. For conditions of award, apply to Rev. Prof. W. S. Tindal, O.B.E., M.A., D.D., New College, The Mound, Edinburgh 1, or to Mr F. N. Davidson Kelly, M.A., LL.B., 16 Heriot Row, Edinburgh 3, by 31st March.

1959, A. W. Morrison, B.A.

Fellowships, Scholarships and Bursaries

Myline Bursary.—£60 p.a. for 3 years (or during a Divinity curriculum); awarded on the basis of an examination in first year theological subjects to students of Scottish birth who intend to become ministers of the Church of Scotland and who have given their whole time to study during the session preceding the award. The bursary is not tenable along with any other scholarship, bursary or endowment or with any paid work. Patrons, the Moderator, the Procurator and the Principal Clerk of the General Assembly of the Church of Scotland. Apply to the Dean by 1st March.

Nairne (Agnes) Bursary.—£25 p.a.
1958, K. J. C. McConnell, B.A.

***Nairne (James) Bursary.**—£20 p.a. Patron, the Professor of Divinity.
1958, R. Ann Mackay.

Neilson Travelling Fellowship.

***Ramsay Bursary.**—£20 p.a. Patrons, the Town Council of Edinburgh. Apply to the Director of Education, St. Giles Street, by 12th September.
1957, W. M. Wallace.

***Renton Bursary.**—£36 p.a.; restricted to students who require pecuniary aid in obtaining a university education. A preference is given to students who intend to become ministers of the Church of Scotland. Patrons, the Professors of Theology.

1958, R. J. G. Gray, B.A.

Struthers and Leighton Bursary.—£30 p.a. for 3 years; awarded on the basis of an examination to students who, having passed all the examinations for the M.A. degree in the University, are entering their first year in Divinity. Patrons, the Town Council of Edinburgh. Apply to the Principal, New College, by 16th September.

1958, A. L. Marr, M.A.

***Thomson Bursaries.**—Two bursaries of £50 p.a.; one awarded two years out of three on the basis of the Divinity Entrance Bursary examination, to a student entering the curriculum for graduation in Divinity. A preference is given to natives of Dumfriesshire and Edinburgh. The bursaries are not tenable along with any other bursary yielding more than £25 p.a.

1957, E. Craig, M.A.

Union Theological Seminary of New York Fellowships.—Two fellowships of \$1200 for one year; awarded annually to Scottish students who have completed with distinction a theological course in any theological college in Scotland and who wish to attend Union Seminary for post-graduate study. Apply, with a statement of qualifications and a letter of recommendation from at least one professor, to Principal Emeritus John Baillie, New College, Edinburgh, by 1st December.

1959, D. Hill, B.A. (St. Andrews), and R. W. M. Johnston, M.A. (Glasgow).

Waterbeck Prizes.—Four prizes of (a) £10, (b) £10, (c) £7 and (d) £7, awarded annually to students, (a) and (c) in the Junior, and (b) and (d) in the Senior Systematic Theology class.

1959, R. N. Brown, B.A., and D. W. D. Shaw, B.A., LL.B. (a); J. H. I. Watt, M.A. (b); A. W. Morrison, B.A. (d).

***Webster Bursaries.**—Three bursaries of £80 p.a.; awarded annually to students who intend to become ministers of the Church of Scotland.

1956, J. H. I. Watt, M.A. 1957, A. J. Roy, B.Sc.

Faculty of Divinity

The following fellowships, scholarships, bursaries and prizes are tenable by students in the Faculty of Divinity. Full details are given in the programmes of the Faculties indicated:—

Angus (Edinburgh) Club Scholarships (Arts—Strathmore-Cobb)
Auld Bursary (Arts)
Bartle Frere Memorial Fund (Arts)
British Council Travel Grants (Arts)
Brown (Richard) Scholarship (Arts)
Carmichael (Robert) Scholarships (Arts)
Carnegie Trust (Arts)
Cecil Peace Prize (Arts)
Cowan House Scholarships (Entrance Bursaries)
Dickson (William) Travelling Fund (Arts)
Dominion Students' Hall Trust (Arts)
Fulbright Travel Grants (Arts)
Gray Scholarship (Arts)
Grierson Verse Prize (Arts)
Highlands and Islands Education Trust Undergraduate Bursaries (Arts)
Honey Bursaries (Arts)
Leverhulme Research Fellowships and Grants in Aid of Research (Arts)
Moray (Earl of) Endowment for the Promotion of Original Research (Arts)
Murchison of Taradale Memorial Trust (Arts)
Post-graduate Studentships, Research Grants and Fellowships (Arts)
Sharp Bursary (Arts)
Shaw Macfie Lang Fellowship (Arts)
Sloan Prize (Arts)
Spence (Magnus) Memorial Prize (Arts)
Stevenson Exchange Scholarships (Arts)
Strathmore-Cobb Scholarships (Arts)
Wardlaw (D. R.) Memorial Bequest (Arts)
Webster and Davidson Mortification (Arts)

FACULTY OF LAW PROGRAMME

*Dean:—*PROFESSOR A. H. CAMPBELL

TABLE OF COURSES

Terms:—Autumn—Oct. 13 to Dec. 18, 1959
Spring—Jan. 12 to Mar. 18, 1960
Summer—Apr. 12 to June 10, 1960

All the classes (except the Forensic Medicine, German Tutorial and English Literature courses) meet in the Old College. Non-matriculated students are admitted to the courses marked with an asterisk (*) on the payment of an entry fee of £1 and the fees for the individual classes taken—£5, £8 and £10 for classes of one, two and three terms respectively and £5 for a two- or three-term class which meets on fewer than thirty occasions.

General

Courses	Day of Opening	Hour	Professors and Lecturers
*GERMAN TUTORIAL COURSE (<i>Minto House</i> : 3 terms) (<i>p. 81</i>)	Oct. 15	5	Dr. Furness
THE NATURE OF KNOWLEDGE (<i>p. 82</i>)			Dr. Broadie
COMPARATIVE CONSTITUTIONS (3 terms) (<i>p. 99</i>)	Oct. 13	3	Prof. Mitchell and Mr. V. MacKinnon

Degrees of LL.B. and B.L.

*ACCOUNTING AND BUSINESS METHOD (spring and summer) (<i>p. 102</i>)	Jan. 12	10	Prof. Anderson and Lecturers
ADMINISTRATIVE LAW (autumn and spring) (<i>p. 101</i>)	Oct. 16	4	Mr. McLarty
CIVIL LAW (<i>p. 94</i>)			
Autumn and spring	Oct. 13	2	} Prof. Smith
Summer	Apr. 12	2	
CONSTITUTIONAL LAW (<i>p. 98</i>)			
Autumn and spring	Oct. 13	5	} Prof. Mitchell and Mr. Henderson
Summer	Apr. 12	5	
CONVEYANCING (3 terms) (<i>p. 96</i>)	Oct. 13	9	Prof. Henry
EVIDENCE AND PLEADING (autumn and spring) (<i>p. 101</i>)	Oct. 13	5	Mr. Dickson
FORENSIC MEDICINE (<i>New Buildings</i> : autumn) (<i>p. 100</i>)	Oct. 13	4	Prof. Douglas Kerr
*PALAEOGRAPHY (autumn and spring) (<i>p. 102</i>)	Oct. 13	4	Prof. Dickinson
PUBLIC LAW (<i>pp. 96-98</i>)			
Jurisprudence (Elementary) (autumn)	Oct. 13	10	} Prof. A. H. Campbell
Public International Law (spring)	Jan. 12	10	
Jurisprudence (Advanced) (summer)	Apr. 12	10	
INTERNATIONAL RELATIONS (spring) (<i>p. 98</i>)	Jan. 13	5	Prof. Wiskemann
SCOTS LAW (<i>pp. 95-96</i>)			
Autumn and spring	Oct. 13	9	} Prof. Montgomery and Lecturers
Summer	Apr. 12	9	
Mercantile Law (a) (spring and summer)	Jan. 12	4	
Mercantile Law (b) (autumn and spring)	Oct. 13	5	
International Private Law (summer)	Apr. 12	4	
Legal History	Oct.		
ARTS CLASSES (<i>p. 102</i>)			
English Literature (<i>39 George Square</i>)	Oct. 13	12	Prof. Butt
British History	Oct. 13	11	Profs. Hay and Horn
Scottish History I	Oct. 13	11	Prof. Dickinson
European History	Oct. 13	9	Prof. Horn
Logic and Metaphysics	Oct. 13	10	Prof. * * *
Political Economy	Oct. 13	9	Prof. Peacock
Moral Philosophy	Oct. 13	10	Prof. Barnes
Latin	Oct. 13	10	Prof. J. M. Campbell

Faculty of Law

Diploma in Administrative Law and Practice

Courses	Day of Opening	Hour	Professors and Lecturers
ACCOUNTING (summer) (<i>p. 106</i>) . .	Apr. 14	5	Prof. Anderson and Lecturers
ADMINISTRATIVE LAW (<i>p. 105</i>)			
Administrative Law I (autumn) . .	Oct. 16	4	} Mr. McLarty
Administrative Law II (spring) . .	Jan. 12	4	
Administrative Law III (summer) . .	Apr. 12	4	
BANKING (autumn) (<i>p. 106</i>) . .	Oct. 13	5	Mr. Lockie
CONSTITUTIONAL LAW (spring) (<i>p. 105</i>) .	Jan. 12	5	Prof. Mitchell and Mr. Henderson
ORGANISATION OF INDUSTRY AND COMMERCE (autumn and half of spring) (<i>p. 106</i>) .	Oct.		Professor Hunt

INTRODUCTION

Admission to the Faculty of Law

Prospective entrants to the Faculty of Law should consult the Programme of Admission to the University from which most of the following information has been abstracted.

Degree of B.L. and Combined Degrees of M.A. and LL.B.—Persons wishing to begin a curriculum leading to the degree of B.L. or the combined degrees of M.A., LL.B., must obtain an Attestation of Fitness (see Programme of Admission, pp. 3-4). They must include in their entrance qualifications a pass in Latin on the lower standard at least of the Leaving Certificate of the Scottish Education Department or produce some equivalent evidence of proficiency in Latin. Intending candidates for the combined degrees of M.A., LL.B., must obtain such further entrance qualifications as may be required for particular classes in the curriculum leading to the degree of M.A. (see Programme of Admission, pp. 6-9, and also Faculty of Arts Programme).

Degree of LL.B.—Persons wishing to begin a curriculum leading to the degree of LL.B. must be graduates in Arts in one of the universities of the United Kingdom or of any foreign or colonial university specially recognised for the purpose by the University Court, and must produce evidence to that effect.

Applications for Admission.—Prospective entrants must apply for admission to the Faculty by 1st September on forms to be obtained from the Matriculation Office, Old College. Those wishing to study for the combined degrees of M.A., LL.B., must also apply for admission to the Faculty of Arts (see Faculty of Arts Programme.)

Diploma in Administrative Law and Practice.—See Index.

Director of Studies

All communications requiring an answer should be accompanied by a stamped addressed envelope

The Dean of the Faculty is the Director of Studies. He will see first-year students on certain days between 29th September and 9th October; the place and times will be found on the Faculty of Law notice board in the Old College. (The term "first-year students" includes those who have already attended classes in the Faculty of Law counting towards the combined degrees of M.A., LL.B., but have not had their Law curriculum approved by the Dean.) Every first-year student must consult the Dean and must bring with him (a) his Attestation of Fitness, and (b) the letter showing that he has been accepted for admission to the Faculty. He must have his curriculum arranged by the Dean.

Second and third year students must consult the Dean at the times indicated on the Faculty of Law notice board and obtain his approval of the classes to be taken during the year.

During the session the Dean may be consulted in the Dean's room any day from Tuesday to Friday at 11 a.m.

German Tutorial Course

DR. FURNESS

Mon. and Thurs. at 5 during the three terms, in Minto House. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary, but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th Ed. Oliver and Boyd).

Faculty of Law

The Nature of Knowledge

DR. BROADIE

About twelve lectures at times to be arranged to suit students of different faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (Oxford).

This course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations". Students matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.*

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degrees of B.L. and LL.B. and the combined degrees of M.A., B.L. and M.A., LL.B. is £35. The fee for the diploma in Administrative Law and Practice is £45. A fee of £3 is payable in respect of late payment of the annual and diploma fee.

The single-class fee, for tuition and one diet of examination, for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class and £10 for a three-term class and £5 for a two-term or three-term class which meets on fewer than thirty occasions. Non-graduating students taking more than one class are required to pay the annual fee.

The fee for re-examination is £1, 10s. per subject.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from

10 a.m. to 12 noon, and

2 p.m. to 4.15 p.m. Mondays to Fridays, and from

10 a.m. to 12 noon on Saturdays.

16th November, and after at the Matriculation Office, Old College, from

10 a.m. to 1 p.m., and

2 p.m. to 4 p.m. Mondays to Fridays

10 a.m. to 12 noon, Saturdays.

Students whose enrolments are made after the following dates—

for the Autumn Term—31st October

for the Spring Term—31st January

for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

Fees

All degree and diploma students are required to submit the following documents, duly completed :—

Matriculation Form A

Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)

Form of Account for fees (where these are payable by local authority or other public body).

Director of Studies' note of prescribed classes

X-ray Certificate

Carnegie Trust Coupon (if any).

Matriculation Forms and the Form of Accounts for fees are available at the place of enrolment.

Non-graduating students and C.A. students enrolling for obligatory classes in connection with their course of study do not require to submit a Director of Studies' note of prescribed classes.

Non-matriculated students paying an entrance fee of £1 and taking classes marked with an asterisk on the table of courses require to submit :—

Entrance Form C

X-ray Certificate

Students who require evidence for enrolment in order to obtain payment of their grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree Examinations

Entries for degree examinations are received at the Matriculation Office, Old College, as follows:—

June examinations 4th May 1960 (10-1, 2-4)

September-October examinations 23rd August 1960 (10-1)

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late entry on payment of an additional late fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry.

Degree and diploma candidates for examination must be matriculated for the academic year in which the examination falls. On entering for an examination a student must present his matriculation and fee cards. He must also show, at the same time, if possible, or at the latest before the day of the examination, his class certificates. The stamping of the examination cards with the words "Certificates examined" gives the candidate admission to the examination. A candidate must enter for each examination at which he wishes to appear and must state the subject or subjects in which he wishes to be examined.

If a candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown be allowed to appear at the subsequent diet without the payment of the re-examination fee. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form, to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh".

GRADUATION

Registration and Entry

Every student, who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, must present the certificates of degree passes, and must pay £1 for registration as a member of the General Council if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards¹ and their current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Men graduands for the degrees of B.L., LL.B., and Ph.D. are requested to appear in black or dark coloured clothes, white starched collars, and white bow neckties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown worn for the degrees of B.L. and LL.B. is one of black silk or stuff with long sleeves. The hoods are as follows:—For B.L.—black silk, edged with blue silk three inches broad, and trimmed with white fur; for LL.B.—black silk, lined with blue silk and bordered with white fur. For the academic dress for other degrees, see UNIVERSITY CALENDAR, "Academic Costume." There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation

The Sponsio Academica at graduation is:—"Nos qui nomina subsignamus siue baccalaureatus siue magisterii siue doctoratus titulo iamiam donandi spondemus nos in omni debitae gratitudinis officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum perseueraturos."²

¹ For those paying pre-1956 fees.

² TRANSLATION :—"We, the undersigned, upon whom the degree of bachelor or master or doctor is now to be conferred promise that we will to our latest breath abide in all due loyalty to the University of Edinburgh."

**ORDINANCES REGULATING THE DEGREES OF
BACHELOR OF LAWS AND BACHELOR OF LAW**

**I. Bachelor of Laws (LL.B.)—Ordinance No. CCXCVII
(Glasgow, Aberdeen and Edinburgh No. 1)**

I. Every candidate for the degree of Bachelor of Laws (LL.B.) must, before commencing his studies in law, either be a graduate in Arts of a Scottish university or have obtained at some other university a degree in Arts specially recognised for this purpose by the University Court on the recommendation of the Senatus Academicus of the university in which the candidate intends to graduate.

II. (1) Every candidate for the degree of Bachelor of Laws must in the course of not less than three academical years after becoming a graduate in Arts attend approved courses of instruction in not fewer than eight of the subjects prescribed for examination under sub-section (2) hereof, provided always that if the candidate in the course of his Arts degree has passed in not fewer than two of the prescribed subjects on the standard required for the degree of Bachelor of Laws (LL.B) the Senatus shall have power to reduce the period of study after graduation in Arts to a period of not less than two academical years during which he shall attend approved courses of instruction in the remainder (being not fewer than five) of the prescribed subjects. (2) The subjects for examination shall (subject to the provisions contained in the sub-section immediately succeeding) be chosen from the following list with such additions or modifications as may hereafter be made by the Senatus Academicus with the approval of the University Court provided always that no curriculum shall include a subject in which a qualifying course has not been established.

1. Civil Law; 2. Jurisprudence; 3. Constitutional Law or Constitutional Law and Legal History; 4. Scots Law; 5. Conveyancing; 6. Mercantile Law; 7. Public International Law; 8. International Private Law; 9. Evidence and Pleading or Evidence and Procedure; 10. Forensic Medicine, or Forensic Medicine and Penology; 11. Administrative Law; 12. Accountancy or Accounting and Business Method; 13. Comparative Law; 14. History of Scots Law.

(3) The subjects for examination of each candidate shall include the following subjects:—1. Civil Law; 2. Jurisprudence; 3. Constitutional Law or Constitutional Law and Legal History; 4. Scots Law; 5. Conveyancing or Mercantile Law.

III. (1) At least two academical years shall be spent in study at the university in which the candidate intends to graduate, provided that the Senatus Academicus shall have power in exceptional cases to reduce the period to one academical year but in such cases the whole of the remainder of the prescribed course of study for the degree of LL.B. must be spent in not more than one of the other Scottish universities. (2) One year may be spent in study at one or more of the other Scottish universities or at other universities specially recognised by the University Court.¹ Further, the Senatus Academicus may accept, under such conditions and to such extent as they may from time to time prescribe, the degree examinations passed in any of the other Scottish universities in any of the said prescribed subjects as exempting a candidate from further examination in the subjects so passed. (3) The Senatus Academicus may accept

¹ Recognised in terms of this section:—The Universities of Oxford, Cambridge and Dublin; the Inner and Middle Temples; Lincoln's Inn; Gray's Inn; the Madras Law School; McGill University, Montreal; London School of Economics, University College and King's College, University of London; the Maharaja's Law College, Trivandrum; Ripon College, University of Calcutta; University of Rangoon; the colleges and universities approved by the Association of American Universities. The exemption granted is only in respect of attendance at classes, not of examinations.

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courses attended and examinations passed in the same university in any of the said prescribed subjects for another degree as exempting a candidate from attendance on and further examination in such subject provided that the examiners are satisfied that the previous examination in such subject has been passed on a sufficiently high standard. Such attendance may count towards the period prescribed in Section II (1).

IV. (1) Every candidate for the degree of Bachelor of Laws shall be examined both orally and in writing in each of the subjects in which he presents himself for examination, but the examiners in any subjects may at their discretion pass or reject a candidate without an oral examination. (2) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations for the degree and, if the Board of Examiners in the University so decide, commendation may be awarded to those who have displayed merit in their examinations.

V. (1) The Senatus Academicus may with the approval of the University Court make regulations (i) as to the grouping of subjects which may be taken for the degree, and (ii) as to the examinations which candidates must pass in each subject and course. (2) The Senatus Academicus may with the approval of the University Court make regulations (i) as to the order in which subjects and courses may be taken, (ii) as to the nature and extent of the course in any subject and the number of lectures and other classes which shall be included in it, (iii) as to the standard of the examinations which candidates must pass in each subject and course and the standard necessary to obtain distinction and commendation, and (iv) imposing conditions regarding the number of subjects in which candidates must pass at one examination and the subjects in which candidates must pass before presenting themselves for examination in other subjects.

VI. A candidate who produces certificates that he has satisfied all the conditions prescribed by this Ordinance and the regulations made thereunder and who has passed the necessary examinations shall be entitled to receive the degree of Bachelor of Laws on payment of the fees required and shall receive a diploma wherein shall be set forth the subjects in which he has passed and the distinction or commendation, if any, which he has obtained.

VII. Every candidate for the degree of Bachelor of Laws must, as a condition of being admitted to examination in any subject, present a certificate stating that he has regularly attended and duly performed the work of the class.

VIII. The examiners shall be the Professors, Readers and Lecturers in each university whose subjects qualify for graduation in Law and such additional examiners as may be appointed by the University Court.

IX. A student who at the date at which this Ordinance comes into operation has already commenced a course of study for the degree of Bachelor of Laws in any Scottish university under the regulations then in force may complete the course and become a candidate for the degree of Bachelor of Laws in conformity with such regulations; but if such student desires to complete the course and to become a candidate for the degree of Bachelor of Laws under this Ordinance and the Regulations made thereunder, it shall be in the power of the Senatus Academicus to determine the conditions under which examinations passed by any such student may be accepted as equivalent to passes in the same subjects as prescribed in Section II thereof.

X. The degree of Bachelor of Laws shall not be conferred upon any person who has not complied with the conditions hereinbefore set forth and shall not be conferred *honoris causa tantum*.

**II. Bachelor of Law (B.L.)—Ordinance No. CCXCII
(Edinburgh No. 97)**

I. Every candidate for the degree of Bachelor of Law (B.L.) must satisfy the conditions as to admission to the Scottish universities for the purpose of graduation as specified under Ordinance of the University Courts No. LXX General No. 3 (Regulations as to Admission to the Scottish universities for purposes of graduation), or under any Ordinance passed or to be passed to alter or amend that Ordinance.

II. Every candidate for the degree of Bachelor of Law must in the course of not less than three academical years attend approved courses of instruction in not fewer than eight of the subjects prescribed under Section III (1) and (2) of this Ordinance.

III. (1) The subjects of study in the first year of the course shall be:—(i) Civil (Roman) Law. (ii) Any two of the following:—(a) English Literature. (b) History (British History), or Scottish History or European History. (c) Logic and Metaphysics or Moral Philosophy. (d) Latin. (e) Political Economy. (2) The subjects of study in the second and third years of the course, of which three shall be studied in a full course, shall be:—(i) Constitutional Law or Constitutional Law and Legal History. (ii) Scots Law. (iii) Conveyancing or Mercantile Law. (iv) Jurisprudence. (v) Any one of the following:—(a) International Private Law. (b) Evidence and Pleading or Evidence and Procedure. (c) Forensic Medicine. (d) Administrative Law. (e) Accounting and Business Method or Accountancy. (f) Public International Law. (g) Mercantile Law (if not already taken). (3) It shall be open to the Senatus Academicus, with the approval of the University Court, to make such additions or modifications to the above-mentioned lists of subjects as may appear from time to time to be expedient; provided always that no curriculum shall include a subject in which a qualifying course has not been established.

IV. (1) At least two academical years shall be spent in study at the University of Edinburgh. (2) One year may be spent in study at one of the other Scottish universities or at another university specially recognised by the University Court. Further, the Senatus Academicus may accept, under such conditions and to such extent as they may from time to time prescribe, the degree examinations passed in any of the other Scottish universities in any of the said prescribed subjects as exempting a candidate from further examination in the subjects so passed. (3) The Senatus Academicus may accept courses attended and examinations passed in the University of Edinburgh in any of the said prescribed subjects for another degree as exempting a candidate from attendance on and further examination in such subject, provided that the examiners are satisfied that the previous examination in such subject has been passed on a sufficiently high standard. Such attendance may count towards the period prescribed in Section II.

V. (1) Every candidate for the degree of Bachelor of Law shall be examined both orally and in writing in each of the subjects in the Faculty of Law or Department of Law in which he presents himself for examination, but the examiners in any subject may at their discretion pass or reject a candidate without an oral examination. (2) Distinction may be awarded to those candidates who have displayed exceptional merit in the degree examinations in the Law subjects of the course.

VI. (1) The Senatus Academicus may, with the approval of the University Court, make regulations (i) as to the grouping of subjects which may be taken for the degree, and (ii) as to the examinations which candidates must pass in

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each subject and course. (2) The Senatus Academicus may, with the approval of the University Court, make regulations (i) as to the order in which subjects and courses may be taken, in so far as such order is not already prescribed in this Ordinance, (ii) as to the nature and extent of the course in any subject and the number of lectures and other classes which shall be included in it, provided always that no full course shall consist of less than eighty meetings, (iii) as to the standard of the examinations which candidates must pass in each subject and course and the standard necessary to obtain distinction, and (iv) specifying any conditions regarding the number of subjects which must be passed at one examination and any subjects which must be passed by candidates before presenting themselves for examination in other subjects.

VII. A candidate who produces certificates that he has satisfied all the conditions prescribed by this Ordinance and the regulations made thereunder and who has passed the necessary examinations shall be entitled to receive the degree of Bachelor of Law on payment of the fees required and shall receive a diploma wherein shall be set forth the subjects in which he has passed and the distinction, if any, which he has obtained.

VIII. Every candidate for the degree of Bachelor of Law must as a condition of being admitted to examination in any subject, present a certificate stating that he has regularly attended and duly performed the work of the class.

IX. The examiners shall be the Professors, Readers and Lecturers in the University whose subjects qualify for the degree of Bachelor of Law and such additional examiners as may be appointed by the University Court.

X. A student who at the date at which this Ordinance comes into operation has already commenced a course of study for the degree of Bachelor of Law under the regulations then in force may complete the course and become a candidate for the degree of Bachelor of Law in conformity with such regulations; but if such student desires to complete the course and to become a candidate for the degree of Bachelor of Law under this Ordinance and the Regulations made thereunder, it shall be in the power of the Senatus Academicus to determine the conditions under which examinations passed by any such student may be accepted as equivalent to passes in the same subjects as prescribed in Section III hereof.

XI. The degree of Bachelor of Law shall not be conferred upon any person who has not complied with the conditions heretofore set forth and shall not be conferred *honoris causa tantum*.

XII. From the date at which this Ordinance comes into operation the provisions of Ordinance No. XXXVII General No. 2 (Regulations for the degree of Bachelor of Law (B.L.) and Bachelor of Laws (LL.B.)), and University Court Ordinance No. CCV Edinburgh No. 69 shall cease to have effect in so far as they are inconsistent with this Ordinance.

Combined Degrees

If the M.A. and LL.B. (or B.L.) degrees are combined, not more than three full courses common to the two degrees may be used to qualify for the M.A. degree. The minimum time for the combined M.A., LL.B. (or B.L.) degrees and for the combined B.Com., B.L. degrees is five years; for any combination of three degrees (not including M.B., Ch.B.), seven years; and for the combination of M.B., Ch.B., with any two other degrees, nine years.¹ The courses for each year for all combined degrees must be approved by the respective Directors of Studies.

¹ The Senatus may relax this regulation requiring a minimum of nine years for the triple degrees in special cases.

**REGULATIONS FOR THE DEGREE OF BACHELOR OF LAWS (LL.B.)
MADE BY THE SENATUS ACADEMICUS WITH THE APPROVAL
OF THE UNIVERSITY COURT, IN TERMS OF SECTION V OF
ORDINANCE No. CCXCVII (GLASGOW, ABERDEEN AND EDIN-
BURGH No. 1).**

1. The subjects for the degree, whether compulsory or optional, shall be taken in the following order:—

First Year—Civil Law. Constitutional Law. Jurisprudence (First Part—Elements of Jurisprudence). Public International Law.

Second Year—Scots Law. Mercantile Law. Accounting. Forensic Medicine.

Third Year—Conveyancing. Evidence and Pleading. Jurisprudence (Second Part—Advanced Jurisprudence). Administrative Law. International Private Law.

2. (a) A candidate for the combined degrees of M.A., LL.B. shall take the subjects common to the two degrees in the order which is prescribed by his Director of Studies in the Faculty of Arts, and the foregoing regulation shall not apply to such candidates, so far as such common subjects are concerned.

(b) Where a candidate for the combined degrees of M.A., LL.B. has obtained a degree in Arts with Honours and has included in his Arts curriculum Civil Law and one of the other subjects prescribed for the First Year under Regulation 1, it shall be in the power of the Faculty of Law so to modify the prescribed order in which the remaining subjects may be taken, as to provide for the completion of the combined degrees within six years.

(c) Where an optional subject included among the subjects for the Second Year has not been taken in that year, the Faculty may allow such optional subject to be included among the subjects to be studied in the Third Year.

3. (a) The course in Public Law for a degree in Arts shall consist of the First Part of the course in Jurisprudence and the course in Public International Law.

(b) Where, in terms of head (d) of this regulation, a candidate is credited with a pass for the degree of LL.B. in the First Part of the course in Jurisprudence he shall not, by reason of such pass, be exempted from attendance at, and examination in, the Second Part of such course which shall be an obligatory subject for the degree of LL.B.

(c) A candidate shall obtain a mark of fifty per centum both in Jurisprudence and in Public International Law before he can be allowed a pass in Public Law for the degree of M.A.

(d) Where a candidate takes Public Law in his Arts degree, the marks in Jurisprudence and in Public International Law shall be separately recorded, and, if, in either subject, the mark obtained is sixty-six per centum or over, the candidate shall be deemed to have passed in such subject for the degree of LL.B.

(e) Where in either of the subjects comprising the course in Public Law the mark obtained is less than sixty-six per centum, the candidate may, in the discretion of the Faculty, be excused further attendance at a course in such subject, but shall present himself for further examination in such subject before he can qualify for the degree of LL.B.

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4. (a) The course in Jurisprudence shall consist of two parts, each of one term's duration.

(b) The first part of the course to be taken in the first year of study shall consist of lectures (supplemented by tutorial instruction) dealing generally with the nature and function of law, the structure of legal systems, and the sources of their rules.

(c) The second part of the course to be taken at the end of the third year shall consist of lectures (supplemented by tutorial instruction) dealing with advanced problems in legal theory, and particularly with the analysis of legal concepts.

(d) A candidate must reach the pass standard in each part of the course.

5. The courses in Civil Law, Constitutional Law, Scots Law and Conveyancing shall extend over the three terms of the academic year; those in Mercantile Law, Administrative Law, Accounting, and Evidence and Pleading shall extend over two terms; the remainder shall be of one term's duration.

6. A candidate, in addition to the compulsory and optional subjects required to obtain the degree may present himself for examination in such additional subjects as he may desire, the pass in which shall be recorded on his diploma.

7. A candidate must obtain at least sixty-six per centum in each subject in order to pass.

8. (a) A candidate who obtains an average mark of eighty per centum, or over, in the eight subjects necessary to obtain the degree shall be deemed to have obtained the degree with distinction.

(b) A candidate who obtains an average mark of seventy-five per centum, or over, but does not reach an average mark of eighty per centum, shall be deemed to have obtained the degree with commendation.

9. If a candidate has passed in more than three optional subjects, the examiners shall take into account only those three optional subjects in which he has obtained the best marks, and shall award distinction or commendation accordingly.

10. A candidate may pass in one subject at each diet of examination, but he must pass in all the obligatory subjects of the first year before he can present himself for examination in the obligatory subjects of the second year, and in all the obligatory subjects of the second year, before he can present himself for examination in the obligatory subjects of the third year. He may, however, be allowed (with leave of the Faculty) to attend the courses in the following year.

11. The Faculty shall consider the case of any candidate who, after four attempts, has not succeeded in passing in an obligatory subject, and may, if they think fit, recommend to the Senatus that such candidate shall be considered to be an unsatisfactory student and shall be required to cease attendance at law classes.

12. (a) When a candidate applies for exemption from degree examinations under paragraph III (2) of the Ordinance in respect of passes in another Scottish university, the Faculty shall consider his application, and, if satisfied, shall recommend to the Senatus that the candidate may be allowed exemption from examination in the subject mentioned.

(b) A candidate shall not be allowed exemption in more than three subjects on this account.

**REGULATIONS FOR THE DEGREE OF BACHELOR OF LAW (B.L.)
MADE BY THE SENATUS ACADEMICUS WITH THE APPROVAL
OF THE UNIVERSITY COURT IN TERMS OF SECTION VI OF
ORDINANCE No. CCXCII (EDINBURGH No. 97).**

1. (a) The subjects for the degree, whether compulsory or optional, shall be taken in the following order:—

First Year—Civil Law, and any two of the Arts subjects mentioned in para. III (1) of the Ordinance.

Second Year—Scots Law. Mercantile Law. Constitutional Law. Accounting. Forensic Medicine. Public International Law.

Third Year—Conveyancing. Evidence and Pleading. Jurisprudence. Administrative Law. International Private Law.

(b) Where an optional subject included among the subjects for the Second Year has not been taken in that year, the Faculty may allow such optional subject to be included among the subjects to be studied in the Third Year.

2. The course in Jurisprudence—which shall be of one term's duration—shall consist of lectures (supplemented by tutorial instruction) dealing generally with the nature and function of law, the structure of legal systems, and the sources of their rules.

3. The courses in Civil Law, Constitutional Law, Scots Law and Conveyancing shall extend over the three terms of the academic year; those in Mercantile Law, Administrative Law, Accounting, and Evidence and Pleading shall extend over two terms; the remainder shall be of one term's duration.

4. The course in Mercantile Law shall be deemed to be a full course for the purposes of the Ordinance.

5. A candidate, in addition to the one optional law subject necessary for the degree, may present himself for examination in such additional law subjects, as he may desire, the pass in which shall be recorded on his diploma.

6. A candidate must obtain at least fifty per centum in each subject of the first year in order to pass; in the subjects of the second and third years he must obtain at least sixty-six per centum in each subject.

7. (a) A candidate who obtains an average mark of eighty per centum in the six law subjects required for the degree shall be deemed to have obtained the degree with distinction.

(b) Where a candidate has passed in more than one optional law subject, the examiners shall take into account only that optional subject in which he has obtained the best marks.

8. A candidate may pass in one subject at each diet of examination, but he must pass in all the subjects of the first year before he can present himself for examination in the subjects of the second year, and must pass in all the obligatory subjects of the second year before he can present himself for examination in the obligatory subjects of the third year. He may, however, be allowed (with leave of the Faculty) to attend the courses in the following year.

9. The Faculty shall consider the case of any candidate who, after four attempts, has not succeeded in passing in an obligatory subject, and may, if they think fit, recommend to the Senatus that such candidate shall be considered to be an unsatisfactory student and shall be required to cease attendance at law classes.

10. (a) When a candidate applies for exemption from degree examinations, under paragraph IV (2) of the Ordinance, in respect of passes in another Scottish university, the Faculty shall consider his application, and, if satisfied, shall recommend to the Senatus that the candidate may be allowed exemption from examination in the subject mentioned.

(b) A candidate shall not be allowed exemption in more than three subjects on this account.

**ORDINANCE REGULATING THE DEGREE OF
DOCTOR OF LAWS (LL.D.)**

I. (1) Graduates who have taken a degree in a Scottish university may offer themselves for the degree of Doctor of Laws (LL.D.) in that university after the expiry of seven years from the date of such graduation.

(2) It shall be open to the Senatus Academicus of each university, with the approval of the University Court, to exempt from the requirement in the foregoing sub-section respecting previous graduation in that university any person who for a continuous period of not less than four academic years has held such office or offices in that university as the Senatus Academicus may approve, provided that not less than seven years shall have elapsed from the date of his first graduation in any university.

II. All candidates for the degree of Doctor of Laws shall present written work not previously submitted for any degree of any university which shall be approved for the award of the degree only if the Senatus Academicus deems the work to be of sufficient merit as constituting an original and substantial contribution to the study of Law. The work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the work has not been published in full, then, before being submitted, it shall have been published so far and in such manner as the Senatus Academicus accepts as reasonable in the circumstances. Two copies of the work, if approved for the degree, shall be deposited by the candidate in the University Library.

III. The Senatus Academicus of each university shall appoint such Professors, Readers or Lecturers as it may think suitable to examine the work submitted by candidates who may offer themselves for the Degree of Doctor of Laws and the University Court shall, after consultation with the Senatus Academicus, appoint one or more additional examiners to act along with them in adjudicating on the merits of the work submitted by the candidates. Every such additional examiner shall be a person of recognised eminence in the subject of the work presented by the candidate.

IV. The fee to be paid by a candidate for the degree of Doctor of Laws shall be fixed from time to time by the University Courts of the four Universities. The said fee shall be payable on each occasion on which the candidate offers himself for the Degree.

V. The Degree of Doctor of Laws shall not in any case be conferred upon any person who has not satisfied the conditions hereinbefore set forth, provided that nothing in this Ordinance shall be held to restrict or govern the conferment of that degree *honoris causa* according to the terms of Ordinances by which the conferment of the Degree of Doctor of Laws *honoris causa* is now or may hereafter be regulated.

VI. The Senatus Academicus of each University shall have power to make such additional regulations governing the conferment of the Degree as may be approved by the University Court.

**REGULATIONS FOR THE DEGREE OF DOCTOR OF LAWS (LL.D.)
MADE BY THE SENATUS ACADEMICUS WITH THE APPROVAL
OF THE UNIVERSITY COURT IN TERMS OF SECTION VI OF THE
SCOTTISH UNIVERSITIES ORDINANCE NO. 1, 1957.**

1. The Senatus Academicus shall appoint annually a Committee to receive and consider all work submitted for the Degree of Doctor of Laws.

2. The said Committee shall recommend to the Senatus Academicus the names of persons suitable to act as examiners of the work submitted and shall report whether, or not, they recommend the award of the Degree.

3. All candidates for the Degree shall lodge with the Secretary of the said Committee the work which they wish to be considered.

4. Two copies of such work shall be lodged and the fees paid before 1st January, if the candidate wishes to graduate at the Summer Graduation, and before 1st June, if the candidate wishes to graduate at the December Graduation.

5. The fee to be paid for examination for the Degree shall be £20, payable when the work submitted for consideration is lodged.

6. Candidates for examination or graduation shall pay a matriculation fee of £2, 12s. 6d.

7. A candidate for graduation shall enter his name and (if not previously registered) pay the registration fee at least seven days before the date of the Graduation Ceremonial.

COURSES OF INSTRUCTION AND SUBJECTS
OF EXAMINATION

CIVIL (ROMAN) LAW

PROFESSOR SMITH; and Mr HAMNETT, Lecturer

Entrance qualification for this class:—A pass in Latin on the lower standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Class-hours:—Mon., Tues., Thurs. and Fri. at 2 during the three terms. Tutorial instruction is also given, including criticism of students' essays. The lectures are adapted to the requirements of students qualifying for the legal profession. The course is divided as follows:—

I. HISTORICAL INTRODUCTION.—Outline of the history of Roman Law and of the subsequent world wide extension of Civil Law influences in mediæval and modern times; the relation of Civil Law to general Jurisprudence and to Scots Law; sources, codification, and interpretation. This part of the course is intended to serve as an introduction to the study of the Institutes and of the Civil Law in Modern Practice.

II. INSTITUTES.—Systematic study of the Roman Law regarding Persons, Property, Succession and Obligations.

III. CIVIL LAW IN MODERN PRACTICE.—Problems of the Civil Law in Scots Law and in modern codified and "mixed" systems, with special reference to the law of Obligations.

Recommended Reading.—Students are advised to read a general introduction to Roman Law, such as the short books of Lee or Muirhead, with Lee's *Historical Conspectus of the Roman Law*, before they enter the class in Civil Law. During the course students will be given guidance as to their reading for particular topics and for essay purposes. They will, however, be expected to study the originals of the Institutes of Gaius and Justinian, and also portions of prescribed Titles of the Digest. In addition, the following works may be studied with profit for History and Institutes.

H. F. Jolowicz, *Historical Introduction to Roman Law*;

P. Vinogradoff, *Roman Law in Mediæval Europe*;

H. J. Wolff, *Roman Law*;

W. W. Buckland, *Manual of Roman Private Law*;

R. W. Leage, *Roman Private Law*;

R. W. Lee, *Elements of Roman Law*;

J. S. Muirhead, *Outline of Roman Law*;

and for more detailed study, Sohm's *Institutes* (trans. Ledlie), F. Schulz, *Roman Legal Science and Classical Roman Law*; W. W. Buckland, *Textbook of Roman Law*.

For Civil Law in modern practice, the following works may be consulted :—for Scots Law; T. B. Smith, *Development of the Laws and Constitution of Scotland*, vol. i, British Commonwealth Series: for Contract; P. Stein, *Fault in the Formation of Contract in Roman Law and Scots Law*; for Delict; F. H. Lawson, *Negligence in the Civil Law*: generally, J. Mackintosh, *Roman Law in Modern Practice*; Buckland and McNair, *Roman Law and Common Law*, 2nd ed.; A. von Mehren, *The Civil Law System (Cases and Materials)*.

DEGREE EXAMINATIONS

The examinations will be on the subjects specified above.

DEPARTMENT OF SCOTS LAW

PROFESSOR MONTGOMERY; Mr. G. CAMPBELL, H. PATON, Senior Lecturer; Mr. D. MAXWELL, Mr. D. C. ANDERSON, Mr. R. R. TAYLOR and Mr. R. A. BENNETT, Lecturers.

(1) Scots Law

Tues., Wed., Thurs., Fri. and Sat. at 9 during the three terms. The subjects to be dealt with in the course will include:—1. Courts and jurisdiction. 2. Obligations and contracts; contractual relations. 3. Agency. 4. Landownership; leases; prescription. 5. Reparation. 6. Heritable and moveable. 7. Moveable property—corporeal. 8. Moveable property—incorporeal. 9. Wills; and Succession testate and intestate. 10. Executors, trustees and judicial factors. 11. Husband and Wife. 12. Parent and child. 13. Legal rights of spouses and children. 14. Master and servant. 15. Diligence. 16. Criminal law. There will also be tutorial classes.

Books recommended:—Bell's *Principles of the Law of Scotland*, 10th ed., 1899; Gloag on *Contract*, 2nd ed., 1929; Henderson on *Vesting*, 2nd ed., 1938; Glegg on *Reparation*, 4th ed., 1955; Walton on *Husband and Wife*, 3rd ed., 1951; Gloag and Henderson's *Introduction to the Law of Scotland*, 6th ed., 1956; and in the criminal law, Macdonald on the *Criminal Law of Scotland*, 5th ed., 1948; and Renton and Brown on *Criminal Procedure*, 3rd ed., 1956.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the course.

(2) International Private Law

Mon., Tues., Thurs. and Fri. at 4 in summer. The lectures will include:—(1) Choice of law in connection with contract, bills of exchange, agency, assignments, delict, status and capacity, succession, the property rights of spouses *inter se*, immovables, the remedy, bankruptcy, etc.; (2) domicile and nationality; (3) renvoi and classification; (4) recognition and enforcement of foreign judgments; (5) jurisdiction in relation to divorce, declarator and nullity of marriage, etc.

Books recommended:—Dicey, *Conflict of Laws* (6th ed., 1949); Cheshire, *Private International Law* (4th ed., 1952); Graveson, *Conflict of Laws* (3rd ed., 1955).

Reference book:—Duncan and Dykes, *Principles of Civil Jurisdiction* (1911).

DEGREE EXAMINATIONS

The examinations will be on the subjects covered by the lectures.

(3) Mercantile Law

(a) Two half-courses on Mon., Tues., Thurs. and Fri. at 4 in spring and summer respectively. Attendance at these courses qualifies for graduation in **Commerce and Law**. The lectures include:—The law merchant and the law maritime; the law of contract and agency in general; the law of special contracts relating to mercantile affairs—sale and carriage of goods, charter-parties, and bills of lading, bills of exchange and cheques, partnership, bankruptcy, companies and insurance.

Text-book:—Lillic, *The Mercantile Law of Scotland* (5th ed., 1956).

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the lectures.

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(b) **Special Class for Accountancy Apprentices.** Mon., Tues., Wed., Thurs. and Fri. at 5 in autumn and spring. The subjects to be dealt with in the course will include:—an outline of the course and the history of the Law Merchant; contract; company law; partnership; bankruptcy; sale of goods; agency; insurance; rights in security over moveables; executors, trustees and judicial factors; intestate succession; estate duty; bills of exchange; arbitration. There will be tutorial classes as well as lectures.

This class or an equivalent approved by the Council must be taken by apprentices before they present themselves for the First Division of the final examination.

(4) Legal History

Mr. G. CAMPBELL H. PATON, Senior Lecturer

The class meets during the three terms at hours and days to be announced.

The course covers the sources, domestic and foreign, and the literature from early times of Scots Law; the general historical development of Scots Law; the history of particular branches and doctrines including the treatment of branches and doctrines now obsolete; and the history of the Courts and their procedure.

The text-books recommended are: *The Sources and Literature of Scots Law* (Stair Society, Vol. I); *An Introduction to Scottish Legal History* (Stair Society, Vol. XX); Innes, *Scotch Legal Antiquities*; and Smith, *The British Commonwealth, The Development of its Laws and Constitutions, I. The United Kingdom: Scotland*. The student will be from time to time referred to other publications in respect of particular topics of the course.

CONVEYANCING

PROFESSOR HENRY; and Mr. CAMERON, Lecturer

Tues. to Sat. at 9 during the three terms. The course covers:—1. Introduction; definitions. 2. Deeds relating to constitution and transmission of feudal rights; the history of the feudal system; feu charters and other original grants; transmission to singular successors; transmission to heirs; completion of title; services; destinations; entails. 3. Security and other writs relating to heritable property; real burdens; ground annuals; heritable securities; leases; judicial titles; sequestrations; trust deeds for creditors; contracts for sale of heritage; compulsory acquisition of land; estate duty. 4. Writs relating mainly to moveable rights; personal bonds; cautionary obligations; securities over moveables. 5. Wills and marriage contracts; confirmation of executors; submissions; powers of attorney; contracts of copartnery, etc. The lectures are interspersed with sederunts for practical work (once or twice a week as circumstances dictate) devoted to the framing and adjusting of legal writs.

Text-books:—Wood, Menzies and Bell, *Lectures*; Burns, *Handbook of Conveyancing*; Craigie, *Heritable Rights*; *Style Books*.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with or adverted to in the lectures.

PUBLIC LAW

PROFESSOR A. H. CAMPBELL; and Mr. DICK, Lecturer

Tues., Wed., Thurs. and Fri. at 10 during the three terms. Tutorial instruction is also given.

In the autumn term the lectures deal with the **Elements of Jurisprudence**. Attendance on these lectures qualifies for admission to the degree examination in Jurisprudence for the B.L. degree and to the first part of the degree examination in Jurisprudence for the LL.B. degree. B.L. students attend these lectures

in their third year of study and LL.B. students (unless they have already attended them in the Faculty of Arts) in their first year of study.

In the spring term the lectures deal with **Public International Law**. Attendance on these lectures qualifies for admission to the degree examination in Public International Law for the B.L. and LL.B. degrees. B.L. students attend these lectures in their second year of study and LL.B. students (unless they have already attended them in the Faculty of Arts) in their first year of study.

In the summer term the lectures deal with **Advanced Jurisprudence**. Attendance on these lectures qualifies for admission to the second part of the degree examination in Jurisprudence for the LL.B. degree. B.L. students are not required to attend these lectures; LL.B. students attend them in their third year of study.

The Courses in the autumn and spring terms together count as a qualifying course for the subject of Public Law for the M.A. degree. If in the M.A. degree examination a student's work in Jurisprudence reaches a sufficiently high standard he may be deemed to have passed the first part of the examination in Jurisprudence for the LL.B. degree and if his work in Public International Law reaches a sufficiently high standard he may be deemed to have passed in the subject of Public International Law for the LL.B. degree.

The spring term course in Public International Law also counts as a qualifying half-course for the B.Com. degree.

Jurisprudence I (Elements of Jurisprudence)

The lectures deal with the nature, function and evolution of law; the history of legal systems and of legal theory; the sources of legal rules.

No text-book is prescribed but the following works may be studied with profit: Paton, *Text-book of Jurisprudence* (2nd ed.), chs. I to X, XIV and XV; Dias and Hughes, *Jurisprudence*, Parts I and III; Salmond, *Jurisprudence* (11th ed.), Introd. and Book I; Keeton, *Elementary Principles of Jurisprudence* (2nd ed.), Part I; Buckland, *Some Reflections on Jurisprudence*; Kantorowicz, *The Definition of Law*.

The following may be consulted on special topics:—

For the evolution of law: Maine, *Ancient Law*; Diamond, *Primitive Law*.

For the history of legal systems: Vinogradoff, *Roman Law in Medieval Europe*.

For the history of legal theory: D'Entrevies, *Natural Law*; Del Vecchio, *Philosophy of Law*; Friedmann, *Legal Theory*; Dicey, *Law and Public Opinion in England in the Nineteenth Century*.

For the Austinian Theory: Austin, *Jurisprudence*, Lectures I, V and VI.

For Kelsen's Theory: Kelsen, *General Theory of Law and State*.

For the theory of justice: Del Vecchio, *Justice*.

For the sources of legal rules: Allen, *Law in the Making*; Smith, *Judicial Precedent in Scots Law*.

Public International Law

The lectures deal with the history of international law, the elements of the law of peace and of the law of war, international organisation and international tribunals.

Text-books: Brierly, *The Law of Nations* (5th ed.); Starke, *Introduction to International Law* (latest ed.); the Charter of the U.N.O. and the Statute of the International Court.

For reference: Nussbaum, *Concise History of the Law of Nations*; Oppenheim, *International Law* (ed. Lauterpacht); Schwarzenberger, *International Law*; Nicolson, *Diplomacy*; Worley (ed.), *The United Nations*; Pitt Cobbett, *Leading Cases on International Law*; Green, *International Law through the Cases*; McNair, *International Law Opinions*; the *British Yearbook of International Law*.

Faculty of Law

Jurisprudence II (Advanced Jurisprudence)

The lectures deal mainly with a comparative and analytical study of fundamental legal conceptions (right, duty, obligation, person, thing, title, ownership, possession, contract, delict, crime, intention, negligence, etc.).

The following works may be studied with profit: Paton, *Text-book of Jurisprudence* (2nd ed.), chs. XI to XIII and XVI to XXIII; Dias and Hughes, *Jurisprudence*, Part II; Salmond, *Jurisprudence* (10th ed.), Book II; Keeton, *Elementary Principles of Jurisprudence* (2nd ed.), Part II; Holland, *Jurisprudence*, chs. VII to XV.

Reference may be made to Hohfeld, *Fundamental Legal Conceptions*; Kocourek, *Jural Relations*; and (for purposes of comparative study) to Amos and Walton, *Introduction to French Law*; Lawson, *Negligence in the Civil Law*; and chapters of the following:—Maitland, *Selected Essays*; Allen, *Legal Duties*; Goodhart, *Essays in Jurisprudence and the Common Law*.

INTERNATIONAL RELATIONS

PROFESSOR WISKEMANN

The lectures are given on Mon. and Wed. in the spring term at 5 p.m. They will deal mainly with current problems of international organisations and with the history of international politics between the wars.

CONSTITUTIONAL LAW

PROFESSOR MITCHELL; and Mr. H. MCN. HENDERSON, Lecturer

Tues., Thurs. and Fri. at 5 during the three terms. The course covers:—

(a) An introduction to British constitutional development; the law and custom of the British Constitution.

(b) Comparative constitutional law and practice.

Tutorial classes will be arranged and will form an integral part of the course.

No books are prescribed, but the following standard works are recommended, and a selection should be made from them.

(a) W. I. R. Fraser, *Outline of Constitutional Law*; Wade and Phillips, *Constitutional Law*, or O. Hood Phillips, *Constitutional Law*; Jennings, *The Law and the Constitution*; T. B. Smith, *Scotland* (Vol. I of the United Kingdom Volume in the British Commonwealth Series); Jennings, *Constitutional Laws of the Commonwealth*; Wheare, *The Statute of Westminster and Dominion Status*.

(b) Corwin, *The Constitution and What it Means Today*; Hamson, *Executive Discretion and Judicial Control*; Waline, *Traité de Droit Administratif*.

On particular topics reference can usefully be made to any of the following books:—Dicey, *The Law of the Constitution*; Jennings, *Parliament and Cabinet Government*; Campion, *British Government since 1918*; Keir and Lawson, *Cases on Constitutional Law*, or O. Hood Phillips, *Cases on Constitutional Law*; Anson, *The Law and Custom of the Constitution*; Carr, *Concerning English Administrative Law*; Dowling, *Cases on Constitutional Law*; Vedel, *Manuel de Droit Constitutionnel*.

Note.—In all cases the latest edition shall be used.

DEGREE EXAMINATIONS

The law and custom of the British constitution and comparative law and practice as treated in class.

COMPARATIVE CONSTITUTIONS

PROFESSOR MITCHELL; and Mr. V. MACKINNON, Lecturer

Tues., Thurs. and Fri. at 3 during the three terms. Tutorial classes will also be held.

The course deals with the major constitutional institutions in different systems of government and is concerned with the common constitutional problems of modern states.

The course may be taken as an entirety, but students may also be specially admitted to parts of the course separately. The division of the course is as follows:—

Part I (Autumn)

The U.S.A. The origin, development and structure of the constitution. The President: his office and powers and relationship to the Cabinet, the administration, and to Congress. Congress: its composition and operation as a legislative body. Its relationship to the administration, its investigatory powers. The Federal Judicial System: its structure and the role of the Supreme Court as a constitutional court, its control over legislative and administrative acts. Public Boards and Regulatory Bodies: their powers and influence and control over them, including the Federal Administrative Procedure Act. The Federal System as it exists.

Books recommended. A selection may be made from the following:— E. S. Corwin, *The Constitution and What It Means Today: The President, Office and Powers*; C. B. Swisher, *The Growth of Constitutional Power in the U.S.*; R. E. Cushman, *The Independent Regulatory Commissions*; A. H. Kelly and W. A. Harbison, *The American Constitution*; R. H. Pear, *American Government*; A. B. Saye, *The Principles of American Government*; K. C. Davis, *Administrative Law: Cases and Materials*; Freund *et al.*, *Constitutional Law: Cases and Other Problems*; Mason and Beane, *American Constitutional Law*.

Part II (Spring)

The Commonwealth. The constitutional structure in Australia and Canada. The Governor-General, his office and powers. The legislatures, their composition and powers and the development of cabinet government. The Courts, their structure and constitutional influence. The position of the Crown and the place of public boards in Commonwealth countries. The federal nature of their constitutions and the machinery for co-operation. Their relationship to the United Kingdom.

Books recommended. A selection may be made from the following:— H. McD. Clokie, *Canadian Government and Politics*; R. M. Dawson, *The Government of Canada*; P. Gérin-Lajoie, *Constitutional Amendment in Canada*; W. P. Kennedy, *The Constitution of Canada: Documents*; R. W. Ward, *The Canadian House of Commons*; Laskin, *Constitutional Law of Canada*; H. Evatt, *The King and his Dominion Governors*; L. Crisp, *Parliamentary Government in the Commonwealth of Australia*; G. Sawyer, *Australian Constitutional Cases*; G. Sawyer (ed.), *Federalism*; W. I. Jennings, *Constitutional Laws of the Commonwealth*; W. Friedmann, *Public Corporations*; G. H. Paton, *Australia*.

Part III (Summer)

France. The origins and principles of the constitution of the 5th Republic. The President: his position and influence. The Legislative and Consultative Assemblies: their composition, functions and methods of operation. The

Faculty of Law

Government: its formation and relationship to the Assembly, the position of the Prime Minister. The Courts: judicial structure and recruitment, the role of the Conseil d'Etat and the French concept of the rule of law. Central and Local Government, including the régime of nationalised industries. The relationship of France to colonial territories.

Books recommended. A selection may be made from the following:—D. M. Pickles, *French Politics*; D. W. S. Lidderdale, *The Parliament of France*; B. Chapman, *Local Government in France*; B. Chapman, *The Prefects and Provincial France*; L. Duguit, *Les Constitutions de la France depuis 1789* (7th ed. by G. Berlia); R. Pinto, *Eléments de Droit Constitutionnel*; G. Videl, *Précis de Droit Constitutionnel*; B. Letourneau, *Le Conseil d'Etat*; Conseil d'Etat, *Etudes et Documents*; C. H. Hamson, *Executive Discretion and Judicial Control*; G. Thery, *La quatrième République*; D. W. Brogan, *The Development of Modern France*; D. Thomson, *Democracy in France: The Third and Fourth Republics*.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the course.

FORENSIC MEDICINE

PROFESSOR DOUGLAS KERR; and Dr. F. S. FIDDES, Lecturer

This course is given in autumn at 4, and will embrace, as far as possible, the following subjects:—(a) Methods of judicial investigation; procedure in courts of justice; medical evidence; (b) death in its medico-legal relations; certification of death; the signs of death and post-mortem changes; the medico-legal examination of the dead body; (c) sudden death; its causation and medico-legal importance; (d) identity of the living and of the dead; (e) death from violence and unnatural causes, and the consideration of various questions connected therewith; (f) medico-legal relations of pregnancy and delivery; abortion; infanticide; rape; (g) the examination of blood and seminal stains; medico-legal grouping; (h) medical ethics; (i) legal responsibilities and duties of medical men; (j) insanity in its medico-legal relations; criminal responsibility; lunacy certificates; testamentary capacity; (k) toxicology; consideration of the general evidences of poisoning; the symptoms and morbid appearances produced, the means of detection, and the treatment of poisoning.

These lectures will be supplemented by practical demonstrations. Certain special lectures, including a series of lecture demonstrations on the structure and functions of the human body, will be given at the beginning of the course to Law students. Every facility will be afforded to those who wish to obtain practical insight into any branch of the subject or to undertake research work.

Text-book:—Douglas Kerr, *Forensic Medicine*.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the course.

Forensic Medicine Museum

The museum contains a large collection of pathological specimens, photographs, casts, weapons, etc., illustrative of the various branches of Medical Jurisprudence and Toxicology.

EVIDENCE AND PLEADING

Mr. DICKSON, Lecturer

Tues., Thurs. and Fri. at 5 in autumn and spring. The first part of the course will deal with the following:—(a) The constitution and jurisdiction of the Courts; (b) capacity, title and interest; (c) procedure in an ordinary action in the Court of Session; (d) particular forms of action; (e) proof and jury trial; (f) petitions; (g) appeals; (h) decrees, extracts and expenses; (i) the drafting of summons, condescendence and pleas-in-law and of defences; (j) relevancy and specification in pleading; and generally the principles of written pleading.

The second part of the course will deal with the following:—(a) The development and sphere of the law of evidence; (b) admissions, presumptions and judicial knowledge; (c) relevancy of evidence; acts and statements of parties and third parties; similar acts; character and conduct; opinion evidence; (d) competency of evidence; primary and secondary evidence; hearsay; (e) circumstantial evidence; (f) written and oral evidence; writing as affected by oral evidence; (g) competency of witnesses; privilege of witnesses; incrimination: Evidence Acts; (h) limitation of proof to writ or oath; (i) machinery for making evidence available; citation of witnesses; commission to take evidence or to recover documents; (j) methods of enquiry; (k) conduct of the enquiry; examination and cross-examination; (l) burden of proof; (m) credibility; corroboration; sufficiency of evidence.

Practical experience will be given during the course in the drafting of the more common forms of writs in use in the Courts.

Text-books:—Lewis, *Manual of the Law of Evidence in Scotland* (1925) and *Outlines of the Law of Evidence* (1931); Thomson and Middleton, *Manual of Court of Session Practice* (1937); Dobie, *Sheriff Court Practice* (1948).

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the lectures and in the text-books.

ADMINISTRATIVE LAW I

Mr. McLARY and Dr. STOUT, Lecturers

Tues., Thurs. and Fri. at 4 in autumn. The course will deal on general lines with the following:—Historical development and present structure of local government in Scotland; the local authorities—town, county and district councils; the central authorities—Scottish Home Department and other departments; the sheriff; local government franchise; composition and function of local authority committees; permanent officials; bailies and justices of the peace; building control and the dean of guild; roads; finance; valuation and rating; borrowing; government grants; the common good; police; fire; water; drainage; lighting; cleansing; public health; purity of food and milk; National Health Service—hospital, specialist and medical, etc., services; lunacy and mental deficiency; maternity and child welfare; infectious diseases; National Assistance; children and young persons; housing; town planning; education; bye-laws; licensing and liquor control; private legislation.

Books recommended: *A Source Book and History of Administrative Law in Scotland*; *The Scottish Office and other Scottish Government Departments*, by Sir David Milne.

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ADMINISTRATIVE LAW II

Mr. McLARTY and Dr. STOUT, Lecturers

Tues., Thurs. and Fri. at 4 in spring. This course will contain a detailed examination of the subjects dealt with in the previous course from the point of view of the common law and the statutes affecting them. The subjects to be covered will include Interpretation and Drafting, Conduct of Meetings, Machinery of Administration, Practice of Central and Local Government Offices.

Note.—Throughout the course of instruction in Administrative Law addresses will be delivered from time to time by holders of public appointments, *e.g.* Sheriff, Medical Officer of Health, Town Clerk, County Clerk, City Chamberlain, Assessor, Central Authority officials, etc., and films will be shown of Central and Local Government Services.

Tutorial instruction in small groups will be given throughout the two terms.

PALÆOGRAPHY

PROFESSOR DICKINSON; and Dr. DONALDSON, Reader

Twice a week in autumn and spring at times to be arranged. This course is based on a practical study of Scottish records and is designed to prepare students for research. Some knowledge of Latin is indispensable. Students other than those taking the degree of M.A. with Honours in History can be admitted if there are vacant places.

ACCOUNTING AND BUSINESS METHOD

PROFESSOR ANDERSON; and Mr. JOHN TAYLOR, Lecturer

Tues., Thurs. and Fri. at 10 a.m. in spring and summer. This course, which qualifies for graduation in Law, will deal with:—The general theory of book-keeping; in particular, as applied to the Solicitors' Accounts Rules; the interpretation of published accounts of limited companies; the law and practice of income tax; valuations of businesses and shares of limited companies; Estate Duty; bankruptcy and liquidations; trust accounts and schemes of division.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the lectures.

ARTS CLASSES

Note.—For the full list of prescribed and recommended books and subjects of examination see under the various classes in the Faculty of Arts Programme.

RHETORIC AND ENGLISH LITERATURE

FIRST ORDINARY

PROFESSOR BUTT; and Lecturers

Class-hours:—Lectures on Mon., Tues., Thurs. and Fri. at 12 with tests, etc. on Wed. as will be announced, and tutorials at such other hours as may be arranged.

BRITISH HISTORY

PROFESSORS HAY and HORN; and Lecturers

Class-hours:—Lectures on Tues., Wed. and Fri. at 11 and tutorial instruction in small groups on Mon. and Thurs. mornings at times to be arranged.

SCOTTISH HISTORY

FIRST ORDINARY

PROFESSOR DICKINSON; and Dr. DONALDSON, Reader

Class-hours:—Lectures on Tues., Wed. and Fri. at 11 and tutorial classes at times to be arranged.

EUROPEAN HISTORY

PROFESSOR HORN; and Lecturers

Class-hours:—Tues., Wed. and Fri. at 9.

LOGIC AND METAPHYSICS

PROFESSOR * * * ; and Lecturers

Class-hours:—Tues., Wed. and Fri. at 10, with additional meetings for tutorial instruction.

POLITICAL ECONOMY

PROFESSOR PEACOCK; and Lecturers

Class-hours:—Mon., Tues. and Thurs. at 9 during the three terms.

MORAL PHILOSOPHY

PROFESSOR BARNES; and Lecturers

Class-hours:—Tues., Wed. and Fri. at 10.

HUMANITY (LATIN)

PROFESSOR I. M. CAMPBELL; and Lecturers

Class-hours:—Tues., Wed., Thurs. and Fri. at 10 in autumn and spring; Tues., Wed. and Thurs. at 10 in summer.

**REGULATIONS FOR THE DIPLOMA IN ADMINISTRATIVE
LAW AND PRACTICE**

1. Candidates for the diploma must be:—(a) graduates of a British university or such other university as is recognised for the purpose by the University Court; or (b) students who are not of British nationality and who can satisfy the Senatus that they have reached a standard of education equivalent to an ordinary degree of a British university.

2. The subjects of instruction and examination are:—(a) Administrative Law, central and local (3 terms); (b) Political Economy (3 terms); (c) Constitutional Law (spring); (d) Organisation of Industry and Commerce (autumn and half of spring); (e) Accounting (summer); and (f) Banking (autumn).

3. (a) The period of study shall be not less than one academic year.

(b) The examination for the diploma in Administrative Law and Practice will take place twice in each academic year, at the end of June or the beginning of July and at the end of September or the beginning of October, and will be conducted both orally and in writing.

4. (a) Candidates for the diploma are required to attend the University classes in the six subjects prescribed and obtain certificates of due performance of the class work.

(b) Where a candidate has already included within his degree curriculum a course or courses required for the diploma he may be required in addition to attend and pass degree examinations on the diploma standard in such supplementary courses as the Senatus may determine in each case.

5. (a) The required standard for the diploma will be that of the LL.B. degree in all subjects.

(b) Candidates must pass at one examination in at least two of these subjects unless they have passed previously in all but one of the subjects prescribed, in which case they may present themselves for examination and may pass in that one subject.

(c) Candidates who have already passed as graduation subjects any of these required for the diploma and have reached the required standard will be excused further examination in the subject which they have so passed.

(d) Candidates who have not reached such a standard need not attend the class again, but will be required to pass the examination on the diploma standard.

The matriculation fee is £2, 12s. 6d., the diploma fee is £45.

Director of Studies for the Diploma in Administrative Law and Practice.--
Mr. M. R. McLARTY, Advocate.

COURSES OF INSTRUCTION FOR THE DIPLOMA IN ADMINISTRATIVE LAW AND PRACTICE

ADMINISTRATIVE LAW I

Mr. McLARTY and Dr. STOUT, Lecturers

Class-hours:—Tues., Thurs. and Fri. at 4 in autumn. The course will deal on general lines with the following:—Historical development and present structure of local government in Scotland; the local authorities—town, county and district councils; the central authorities—Scottish Home Department and other departments; the sheriff; local government franchise; composition and function of local authority committees; permanent officials; bailies and justices of the peace; building control and the dean of guild; roads: finance; valuation and rating; borrowing; government grants; the common good; police; fire; water; drainage; lighting; cleansing; public health; purity of food and milk; National Health Service—hospital, specialist and medical, etc., services; lunacy and mental deficiency; maternity and child welfare; infectious diseases; National Assistance; children and young persons; housing; town planning; education; bye-laws; licensing and liquor control; private legislation.

ADMINISTRATIVE LAW II

Mr. McLARTY and Dr. STOUT, Lecturers

Class-hours:—Tues., Thurs. and Fri. at 4 in spring. This course will contain a detailed examination of the subjects dealt with in the previous course from the point of view of the common law and the statutes affecting them. The subjects to be covered will include Interpretation and Drafting, Conduct of Meetings, Machinery of Administration, Practice of Central and Local Government Offices.

Books recommended: *A Source Book and History of Administrative Law in Scotland*; *The Scottish Office and other Scottish Government Departments*, by Sir David Milne.

ADMINISTRATIVE LAW III

Mr. McLARTY and Dr. STOUT, Lecturers

Class-hours:—Tues., Wed. and Fri. at 4 in summer. This term will be occupied mainly with practical work. Visits will be paid to central and local-government departments and local-government undertakings.

Note.—Throughout the course of instruction in Administrative Law addresses will be delivered from time to time by holders of public appointments, e.g. Sheriff, Medical Officer of Health, Town Clerk, County Clerk, City Chamberlain, Assessor, Central Authority officials, etc., and films will be shown of Central and Local Government Services.

Tutorial instruction in small groups will be given throughout the three terms.

CONSTITUTIONAL LAW

PROFESSOR MITCHELL; and Mr. H. McN. HENDERSON, Lecturer

Class-hours:—Tues., Thurs. and Fri. at 5 in spring or as specially arranged. The law and custom of the British constitution.

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ORGANISATION OF INDUSTRY AND COMMERCE

PROFESSOR HUNT; Dr. BEHREND, Mr. HIRD and Mr. STALKER, Lecturers

Class-hours:—Mon., Tues. and Fri. at 5 p.m. in the autumn and the first half of the spring term, with tutorials and visits to business undertakings at such hours as may be arranged.

The course begins with an analysis of the factors determining the size and structure of industries and of their constituent firms. There follows a study of the limited company and its finance, including problems of capital structure, internal and external finance, and the role of the various financial institutions. The general problems of administration are studied, and the forms of internal organisation which have been devised to deal with them. An analysis is made of the several administrative functions and of the problems involved in buying, manufacturing and marketing in various market conditions, including a study of the channels of distribution.

Recommended books:—Robinson, *Structure of Competitive Industry*; Beacham, *Economics of Industrial Organisation*; Allen, *British Industries and their Organisation*; Paish, *Business Finance*; Mooney, *Principles of Organisation*; Brech, *Management—its Nature and Significance*; Branton, *Administration of Business Enterprise*; Hall, *Distributive Trading*; Braithwaite and Dobbs, *Distribution of Consumable Goods*; and the reading specified in the lectures.

ACCOUNTING

PROFESSOR ANDERSON; Mr. T. Z. KWIECINSKI, Lecturer

Class-hours:—Tues. and Thurs. at 5 p.m. in summer. The general theory of bookkeeping; the preparation of manufacturing, trading and profit and loss accounts, and of balance-sheets; the interpretation of published accounts. In addition, six lectures are given on Thursdays during the summer term on the accounts and audits of municipal and local authorities and of public undertakings

BANKING

Mr. LOCKIE, Lecturer

Class-hours:—Tues. and Thurs. at 5 in autumn. The historical background; development of British banking; the system in outline; British deposit banking, principles and practice, assets and liabilities, liquidity and earning assets; Scottish banking, note issues and liquidity; banker and customer; central banking and control of credit; the Bank of England.

Prescribed text-books:—Taylor, *Banking in Scotland*; Manning Dacey, *The British Banking Mechanism*; *United Kingdom Financial Institutions*, H.M.S.O.

POLITICAL ECONOMY (see Faculty of Arts Programme)

Time-Table of Examinations

Timetable of LL.B. and B.L. Degree Examinations (1960)

<i>Subject</i>	<i>June</i>		<i>Sept.-Oct.</i>	
Accounting and Business Method	Th. 16	3.45-5.45	<i>Sept.</i>	
	F. 17	9-12	Tu. 27	9-12
			Tu. 27	3.45-5.45
Administrative Law			<i>Oct.</i>	
	M. 20	3.45-5.45	W. 5	10-12
Civil (Roman) Law			<i>Sept.</i>	
	Th. 23	10-12	F. 30	10-12
	Th. 23	1.15-3.15	F. 30	1.15-3.15
Comparative Constitutions	Tu. 14	10-12	M. 19	1.15-3.15
	Tu. 14	1.15-3.15	W. 21	1.15-3.15
Constitutional Law	F. 17	3.45-5.45	W. 28	10-12
	Tu. 21	3.45-5.45	W. 28	1.15-3.15
Conveyancing			<i>Oct.</i>	
	F. 24	10-12	Tu. 4	10-12
	F. 24	1.15-3.15	Tu. 4	1.15-3.15
Evidence and Pleading	Tu. 21	1.15-3.15	W. 5	1.15-3.15
Forsensic Medicine	Tu. 21	10-12	Tu. 4	3.45-5.45
International Private Law	Th. 16	10-12	W. 5	3.45-5.45
Jurisprudence, Elements of			<i>Sept.</i>	
	W. 22	10-12	Th. 29	10-12
Jurisprudence, Advanced	W. 22	1.15-3.15	W. 28	3.45-5.45
Mercantile Law	M. 20	10-12	Th. 29	1.15-3.15
	M. 20	1.15-3.15	F. 30	3.45-5.45
Public International Law	W. 22	3.45-5.45	Th. 29	3.45-5.45
Scots Law			<i>Oct.</i>	
	M. 27	10-12	M. 3	10-12
	M. 27	1.15-3.15	M. 3	1.15-3.15
English			<i>Sept.</i>	
	W. 15	1.15-3.15	Th. 22	10-12
	Th. 16	1.15-3.15	F. 23	2-4
British History	W. 8	1.15-3.15	M. 19	10-12
	Th. 9	1.15-3.15	Tu. 20	10-12
Scottish History I	W. 8	10-12	M. 19	10-12
	Th. 9	10-12	Tu. 20	10-12
European History	F. 10	10-12	W. 21	10-12
	M. 13	10-12	F. 23	10-12

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Timetable of I.L.B. and B.L. Degree Examinations (1960) — continued

<i>Subject</i>	<i>June</i>		<i>Sept.-Oct.</i>	
			<i>Sept.</i>	
Political Economy	F. 10	1.15-3.15	W. 21	10-12
	M. 13	1.15-3.15	F. 23	10-12
Logic and Metaphysics	W. 15	3.45-5.45	Tu. 20	3.45-5.45
	Th. 16	3.45-5.45	Th. 22	1.15-3.15
Moral Philosophy	F. 10	3.45-5.45	Tu. 20	3.45-5.45
	M. 13	3.45-5.45	Th. 22	1.15-3.15
Latin	F. 10	3.45-5.45	Tu. 20	3.45-5.45
	M. 13	3.45-5.45	Th. 22	1.15-3.15
	W. 15	3.45-5.45	Th. 22	3.45-5.45

Timetable of Examinations for the Diploma in Administrative Law and Practice (1960)

<i>Subject</i>	<i>May-June</i>		<i>Sept.-Oct.</i>	
		<i>June</i>	<i>Sept.</i>	
Accounting—Paper 1	Th. 16	3.45-5.45	W. 14	2-4
Accounting—Paper 2	F. 17	9-10	W. 14	4-5
Administrative Law	M. 20	3.45-5.45	<i>Oct.</i>	
	Tu. 21	10-12	W. 5	10-12
			W. 5	2-4
Banking	<i>May</i>		<i>Sept.</i>	
	Tu. 31	3-5	Th. 29	9-11
Constitutional Law	<i>June</i>			
	F. 17	3.45-5.45	W. 28	10-12
Organisation of Industry and Commerce	Tu. 14	3.45-5.45	M. 26	3.45-5.45
Political Economy	F. 10	1.15-3.15	W. 21	10-12
	M. 13	1.15-3.15	F. 23	10-12

FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS, BURSARIES AND PRIZES

General Conditions of Candidature, Tenure and Payment

Both men and women students are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

A prize shall not be awarded more than once to the same person except by the special recommendation of the Faculty.

Except where special conditions of entry are given under the individual awards below, entry for fellowships, scholarships, and bursaries must be made at the Matriculation Office by 1st May.

Except where otherwise provided by deed of foundation or by resolution of the Senatus, fellowships and scholarships are tenable only by persons who devote their time to post-graduate advanced study or research.

Holders of bursaries in the Faculty of Law must (unless further special conditions are attached to their bursaries) each year attend and perform the work of at least one class in the Faculty.

Payments of fellowships, scholarships, bursaries, and prizes (except those in the hands of agents outside the University) are made by the University Accountant, as follows:—First instalments from 15th October¹; second instalments from 19th May for fellowships and scholarships, and for bursaries after completion of the class attendance as certified by the Dean². Applicants for payments must present certificates signed by or for the Dean attesting that they have fulfilled the necessary conditions. Those who do not apply within three months to the University Accountant for the instalments due to them will be regarded as having resigned, but a formal intimation of resignation should be tendered to the Dean and to the University Accountant.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES AND PRIZES

I

Entrance Bursaries

The following entrance bursaries (see under "Entrance Bursaries") are tenable in the Faculty of Law:—

(a) Entrance Bursaries awarded by the University,

Ardvorlich	McDiarmid
Beattie (John)	Macdonald (William)
Browne	Mackenzie (Stornoway)
Bruce of Grangchill	Mackinnon
Cairns	Maclaurin
Campbell (Robert Mackenzie)	Mann
Chrystie	Marshall
Fairbairn (James)	Maule
Grant	Penman
Grierson (h)	Sibbald
Jamieson	Thomson (c)
Jardine of Thorlieshope	

¹ On special cause shown and with the express approval of the Dean, payment of fellowships and scholarships may be made in one instalment.

² Payments are made without deduction of Income Tax but are assessable if not exempted under Section 458 of the Income Tax Act 1952:—"Income arising from a scholarship held by a person receiving full-time instruction at a university, college, school, or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

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(b) Entrance Bursaries awarded by Outside Bodies

Abercromby	Lanarkshire (Upper Ward)
Association (Edinburgh) for the University Education of Women	Lewis
Baxter of Balgavies	Maclean (Alexander)
Borderers (Edinburgh) Association (c)	Milligan-Paulin
Caithness (Edinburgh) Association	Miners' Welfare National Scholarships
Clan Mackay Society (a), (b), (c)	Nairn
Cowan House (a)	Newland (John)
Highlands and Islands Education Trust (a), (b), (c), (d)	Paterson (a)
Inverness-shire (London) Association	Rackstraw (Marjorie)
	Robertson (Archibald)

II

Scholarships and Bursaries included in the Edinburgh University (Fellowships, Scholarships and Bursaries) Scheme, 1953

The following awards will be offered from time to time in the Faculty of Law:—

Dalgety (Harry) Bursaries.—One bursary of £200 p.a. tenable for two years will be awarded in Civil Law.

1958, E. M. Clive, M.A. (Civil Law); D. R. Anderson, M.A. (Constitutional Law).

Lorimer Travelling Scholarship.—Open to a student who in the two years immediately before an award has completed the B.L. or LL.B. examinations in the following subjects:—Civil Law, Public Law and either Constitutional Law or Political Economy. The holder of the scholarship is normally expected to study abroad during at least part of his period of tenure.

Vans Dunlop Scholarships.—Open to persons who within the three years immediately before the date on which the award is made have attended the classes and completed the degree examinations in the subject or subjects of the scholarship. Candidates must matriculate for the year in which the competition occurs, and must, on entering their names, produce evidence that they are eligible. The holders must complete their graduation curriculum if they have not already done so, and during the remainder of their tenure must attend additional Law courses or assist in tutorial work. A scholarship of £200 p.a. will be open in Conveyancing. Apply to the Matriculation Office by 22nd September.

1958, G. Munn, M.A. (Jurisprudence and Public International Law).

III

Other Fellowships, Scholarships, Bursaries and Prizes

N.B.—The values of awards are stated approximately.

Carnegie Fellowship in Scots Law.—£250 p.a. for one year (or, if the holder's report on his work is satisfactory, for two years, with a possible extension for a third year); awarded to a graduate in Law of a Scottish university who is qualified to carry out research in the history of Scots Law. The holder must select a subject that has the approval of the chairman (for the time being) of the Stair Society, and must place the results of his investigation at the disposal of the Stair Society for possible publication.

Fellowships, Scholarships and Bursaries

Forensic Essay Prize.—£16; awarded annually for the best essay on a subject connected with Civil Law by students in the Civil Law class. The subject is announced by the Professor early in the session.

1959, No award.

John Hastie Law Scholarship.—The scholarship, of annual value of £65 or thereby, is tenable for one year. Women are not eligible for the scholarship. The scholarship is awarded annually to the person who (being otherwise qualified under these Regulations) in the opinion of the Faculty of Law is the most distinguished graduate of the academic year of award, taking into account the degree examinations which he has passed in (1) Scots Law, (2) Conveyancing, and (3) any two of (a) Private International Law, (b) Administrative Law, and (c) Evidence and Pleading. The degree examinations in question shall have been taken in consecutive years. The person to whom the scholarship is awarded, if he has not already qualified as a solicitor in Scotland, shall, before payment of the Scholarship is made, give a written undertaking that he will so qualify.

1958, A. G. Mitchell, M.A., LL.B.

Keith (Margaret Balfour) Prize.—£6; awarded to the most distinguished student in the Constitutional Law class.

1959, R. A. Edwards.

Maclagan Prize.—£4; awarded annually to the best student in the Forensic Medicine class.

1959, E. M. Clive, M.A.

Muirhead Prize.—£13; awarded annually to the student who, on the basis of the class examinations, obtains first place in the Civil Law class.

1959, C. J. H. Sinclair, M.A.

Robertson (John) Prize.—£9; awarded annually to the student in the Conveyancing class who shows the best performance in Practice.

1959, Catherine L. Clark.

Thow Scholarships.—Three scholarships of £25 for one year; awarded annually to the most distinguished students (of Scottish parentage on at least one side) respectively (a) in Conveyancing; (b) in Scots Law; and (c) in two of the following subjects:—Civil Law, Constitutional Law, and Public Law. Any student who has in one year held a Thow scholarship in one of the subjects may in a succeeding year hold another in another subject, provided he has the necessary qualifications; but he may not hold two at once.

1959, I. S. Smith, B.Sc. (a); E. M. Clive, M.A., and C. E. C. Connor (b); R. A. Edwards, M.A. (c).

The following awards are tenable by students in the Faculty of Law. Full details are given in the programmes of the Faculties indicated.

Angus (Edinburgh) Club Scholarship (Arts—Strathmore-Cobb)

Bartle Frere Memorial Fund (Arts)

British Council Travel Grants (Arts)

Brown (Richard) Scholarship (Arts)

Carmichael (Robert) Scholarships (Arts)

Carnegie Research Fellowships, Scholarships and Grants (Arts)

Cecil Peace Prize (Arts)

Commonwealth Fund Fellowships (Arts)

Faculty of Law

Cowan House Scholarships (Entrance Bursaries)

Dickson (William) Travelling Fund (Arts)

Dominion Students' Hall Trust (Arts)

Fulbright Travel Grants (Arts)

Gray Scholarships (Arts)

Grierson Verse Prize (Arts)

Highlands and Islands Educ. Trust Undergraduate Bursaries (Arts)

Moray (Earl of) Endowment for the Promotion of Research (Arts)

Murchison of Taradale Memorial Trust (Arts)

Postgraduate Studentships, Research Grants and Fellowships (Arts)

Shaw Macfie Lang Fellowships (Arts)

Sloan Prize (Arts)

Spence (Magnus) Memorial Prize (Arts)

Stevenson Exchange Scholarships (Arts)

Supplemental Allowances (Scottish Scholars at English Universities) (Arts)

FACULTY OF MEDICINE
PROGRAMME
MEDICINE

Dean of the Faculty of Medicine: PROFESSOR J. H. F. BROTHERSTON

TABLE OF COURSES

Terms:— Autumn—Oct. 13 to Dec. 18, 1959
Spring—Jan. 12 to March 18, 1960
Summer—April 19 to June 24, 1960

Non-matriculated students are admitted to the courses marked with an asterisk (*) on the payment of an Entry Fee of £1 and the fees for the individual classes taken—£5, £8 and £10 for a class of one, two and three terms respectively, and £5 for a two-term or three-term class which meets on fewer than thirty occasions.

General

Courses	Day of Opening	Hour	Professors and Lecturers
GERMAN TUTORIAL COURSE (<i>Minto House</i> : 3 terms) (p. 119)	Oct. 15	5	Dr. N. A. Furness
THE NATURE OF KNOWLEDGE (<i>Old College</i>) (p. 119)	..	..	Dr. Broadie

Degrees of M.B., Ch.B.

*THE STUDY OF MEDICINE (<i>New Buildings</i>) (p. 147)	Oct.
PRINCIPLES OF SCIENTIFIC METHOD (<i>New Buildings</i>) (p. 147)	Apr. 20
CHEMISTRY (<i>King's Buildings</i>) (p. 147):— Lectures (3 terms)	Oct. 15	11.30	} Prof. Hirst, Prof. Cottrell, and Lecturers
Practical (3 terms)	Oct. 19	9	
PHYSICS (<i>Drummond Street</i>) (p. 148):— Lectures (autumn and spring)	Oct. 13	2	} Dr. Dainty and Lecturers
Practical (autumn and spring)	Oct. 19	3	
BIOLOGY (<i>King's Buildings</i>) (p. 148):— Lectures (3 terms)	Oct. 14	11.30	} Prof. Swann and Lecturers
Practical (2 terms)	Oct.	9-11	
ANATOMY (<i>New Buildings</i>) (pp. 148-150):— First Year Anatomy:— Lectures (autumn and spring)	Oct. 13	12	} Prof. Romanes and Lecturers
Microscopic (3 terms)	Oct. 13	10-12	
Regional (summer)	Apr. 19	12	
Practical (autumn and spring)	Oct. 13	10 & 2	
Practical (summer)	Apr. 19	10 & 2	
Second Year Anatomy:— Lectures (autumn)	Oct. 13	11	
Neuro-anatomy (autumn and spring)	Oct. 16	10	} Prof. Whitteridge and Lecturers
Regional (autumn and spring)	Oct. 13	9	
Practical (autumn and spring)	Oct. 13	2-5	
*Applied Anatomy (3 terms)	Oct. 20	4	
PHYSIOLOGY (<i>New Buildings</i>) (pp. 150-151):— First Year Physiology (3 terms):— Lectures	Oct. 15	9	} Prof. Whitteridge and Lecturers
Practical	Oct. 13	2-5	
Demonstrations	Oct. 14	10-12	
Second Year Physiology (aut. and spring):— Lectures	Oct. 15	12	} Prof. Whitteridge and Lecturers
Practical	Oct. 15	2-5	
Demonstrations	Oct. 14	10-1	
Applied Physiology (Fifth Year)	}
Advanced (Practical):— Autumn	Oct.	..	
Spring	Jan.	..	
Summer	Apr.	..	

Faculty of Medicine—Medicine

Degrees of M.B., Ch.B. (continued)

Courses	Day of Opening	Hour	Professors and Lecturers
BIOCHEMISTRY (New Buildings) (p. 152)			
First Year Biochemistry:—			
Lectures (3 terms)	Oct. 13	9	Prof. Fisher and Lecturers
Practical (spring and summer)	Jan. 14	2-5	
Second Year Biochemistry (2 terms):—			
Lectures	Oct. 13	12	
PATHOLOGY (New Buildings and Royal Infirmary) (pp. 153-154):—			
Pathology and Bacteriology:—			
Lectures (3rd year—summer)	Apr. 22	9	Prof. Montgomery and Lecturers
Lectures (4th year—3 terms)	Oct. 15	10	
Practical (4th year)	Oct. 15	2	
Morbid Anatomy (4th year)	Oct. .	2	
Senior Pathology (3 terms)	Oct. 13	..	
Pathology (6th year) . . . . .	..	..
BACTERIOLOGY (New Buildings) (p. 154):—			
Lectures (3rd year—summer)	Apr. 21	10	Prof. Cruickshank, Dr. Swain and Lecturers
Practical (3rd year—summer)	Apr. 21	2.15	
Lectures (4th year—3 terms)	Oct. 14	10	
Practical (4th year—autumn and spring)	Oct. 15	2	
COMBINED DEMONSTRATIONS (4th year—3 terms)			
	Oct.	..	..
PHARMACOLOGY AND THERAPEUTICS (New Buildings) (p. 155)			
Lectures (3rd year—summer)	Apr. 19	9	Prof. Perry and Dunlop
Lectures (4th year—3 terms)	Oct. 14	9	
Practical (autumn and spring)	Oct. 14	2-4	
THERAPEUTICS (Royal Infirmary) (p. 155)			
*Lectures (summer)	Apr. 19	2	Prof. Dunlop
SURGERY (Royal Infirmary, or Western General Hospital) (p. 156)			
Clinical Methods (3rd year—summer)	Apr. 19	11	Prof. Bruce and Lecturers Surgeons to Royal Infirmary or Western General Hospital
Lectures (5th year—3 terms)	Oct. 13	10	
Clinical	Oct. 13	11	
SURGICAL NEUROLOGY (p. 157)			
	..	..	Prof. Dott
ORTHOPÆDIC SURGERY (p. 157)			
	..	..	Prof. James
MEDICINE (New Buildings, Royal Infirmary, or Northern Group Hospitals) (p. 157)			
Lectures (3 terms)	Oct. 13	9	Prof. Donald and Lecturers Prof. of Clin. Med., and Physicians to Royal Infirmary, or Western, Eastern, or Northern General Hospitals
Clinical Methods (3rd year—summer)	Apr. 19	11	
Clinical			
Royal Infirmary	Oct. 13	11	
Northern Group Hospitals	Oct. 13	11	
CLINICAL CHEMISTRY (Royal Infirmary) (pp. 158-159)			
Course I (summer, 3rd year)	Apr. 19	11	Dr. C. P. Stewart
Course II (autumn, 5th year)	Oct. 15	2	
OBSTETRICS AND GYNÆCOLOGY (60 George Square, Royal Infirmary and Northern Group Hospitals) (pp. 159-160)			
Lectures (autumn and spring)	Oct. 13	9	Prof. Kellar Prof. Kellar, and Obstetricians and Gynæcologists to Royal Infirmary, and Northern Group of Hospitals
Clinical			
Obstetrics	Oct. 13	10	
Gynæcology	Jan. 12	10	
	Apr. 19	10	

Table of Courses

Degrees of M.B., Ch.B. (continued)

Courses	Day of Opening	Hour	Professors and Lecturers
*CHILD LIFE AND HEALTH (<i>Royal Infirmary, Sick Children's, and Western General Hospitals</i>) (p. 160)			
Lectures	Oct. 15	9	Prof. Ellis and Lecturers
	Oct. 13	11.30	
Clinical	Jan. 12	11.30	
	Apr. 19	11.30	
PSYCHOLOGICAL MEDICINE AND PSYCHOLOGY (pp. 161-162)			
*Introductory (<i>Old College</i> ; summer)	Apr. 19	5	Profs. Kennedy and Drever
Psychological aspects of Clinical practice (3rd year—summer)	Apr. 20	10	
Clinical and Systematic (<i>New Buildings, Royal Infirmary and Royal Mental Hospital</i> ; spring)	Jan. 13	10	Prof. Kennedy and Lecturers
*NEUROLOGY (<i>Royal Infirmary</i>) (p. 162)			
	Oct. 24	12	Dr. J. K. Slater
	Jan. 16		
	Apr. 23		
PUBLIC HEALTH AND SOCIAL MEDICINE (<i>Usher Institute</i> ; summer) (p. 162)			
Course I (3rd year)	Apr. 19	10	Prof. Brotherston and Lecturers
Course II (5th year)	Apr. 19	9	
GENERAL PRACTICE TEACHING (p. 163)			
Practical (5th year) . . . . .	..	9	Dr Richard Scott
Lectures (6th year) . . . . .	..	9	
FORENSIC MEDICINE (<i>New Buildings</i> ; summer) (p. 163)			
	Apr. 19	2	Prof. Douglas Kerr
TUBERCULOSIS (p. 164)			
Lectures (autumn)	Oct. 16	9	Prof. Crofton
Practical:			
Autumn	Oct. 14	9.30	
Spring	Jan. 12	9.30	
Summer	Apr. 19	9.30	
*DISEASES OF THE EYE (<i>Royal Infirmary</i>) (p. 164)			
Lectures (autumn)	Oct. 14	9	Prof. Scott
	Oct. 13		
Clinical	Jan. 12	11	
	Apr. 19		
DISEASES OF EAR, NOSE AND THROAT (<i>Royal Infirmary</i>) (p. 164)			
Clinical, including Lectures	Oct. 14 Jan. 13 Apr. 20	12	Surgeons to Royal Infirmary, Ear, Nose and Throat Department
*DENTAL DISORDERS (p. 164)			
	Apr. 23	10	Prof. Boyes
DERMATOLOGY (<i>Royal Infirmary</i>) (p. 165)			
Lectures	Oct. 16 Jan. 15 Apr. 21	4	Prof. Percival and Physicians to Royal Infirmary, Dermatology Department
	Oct. 13		
Clinical	Jan. 12	11	
	Apr. 19		
INFECTIOUS DISEASES (<i>City Hospital</i>) (p. 165)			
Autumn	Oct. 15	3.30	Dr. Joe
Spring	Jan. 14	3.30	
Summer	Apr. 21	3.30	
VENEREAL DISEASES (<i>Royal Infirmary</i>) (p. 165)			
Lectures (spring)	Jan. 18 Oct. 15	9	Dr. Lees
	Jan. 14		
Clinical	Apr. 21	10	
*HISTORY OF MEDICINE (p. 165).			

Faculty of Medicine—Medicine

DIPLOMAS

Courses	Day of Opening	Hour	Professors and Lecturers
Diplomas in Medical Radiodiagnosis and Radiotherapy (pp. 166-168)			
Radiodiagnosis	Oct. 1	9	Dr. Samuel
Radiotherapy	Oct. 1	9	Prof. McWhirter
Diploma in Psychiatry (pp. 169-172)			
Part I	Oct.	..	} Prof. Kennedy
Part II	Oct.	..	
Diploma in Public Health (pp. 173-176)			
Course	Oct. 13	9.30	{ Prof. Brotherston and Lecturers
Diploma in Tropical Medicine and Hygiene (pp. 177-181)			
Part I (autumn):			
Entomology and Parasitology	Oct. 13	10	Prof. Swann and Lect
Bacteriology	Oct. 13	2	{ Prof. Cruickshank and Lecturers
Diseases of Tropical Climates	Oct. 14	10	
Virology	Oct. 19	3.15	Dr. Swain
Part II (spring):			
Diseases of Tropical Climates	Jan. 12	9	Dr. Wright
Tropical Hygiene	Jan. 12	12	Dr. Mills
Applied Physiology	Jan. 12	2	Dr. Passmore
Venereology	Jan. 14	11.15	Dr. Lees
Tuberculosis	Jan. 16	9	Prof. Crofton
Elementary Statistics	Jan.	11	Mr. Sklaroff
Diploma in Medical Services Administration (pp. 181-184)			
Course	Oct. 13	..	{ Prof. Brotherston and Lecturers

INTRODUCTION

Director of Studies

All communications requiring an answer should be accompanied by a stamped addressed envelope

The Dean of the Faculty, Professor Brotherston, is the Director of Studies. He or the Assistant Dean may be consulted by appointment made at the Faculty of Medicine Office in New Buildings, Teviot Place, which is open during the terms (10-1 and 2-4; Saturday 10-12).

Admission to the Faculty of Medicine

For the regulations governing admission to the Faculty of Medicine and exemption from the first year of the M.B., Ch.B. curriculum see Programme of Admission, pp. 5-6.

German Tutorial Course

Dr. FURNESS

Mon. and Thurs. at 5, during the three terms. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th ed.).

The Nature of Knowledge

Dr. BROADIE

About twelve lectures at times to be arranged to suit students of different faculties. This course is intended primarily for research students, but others may attend. It is discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (Oxford).

This course will be held in 1959-1960. Those interested should apply to Dr. F. Broadie.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations."* *Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.*

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degrees of M.B., Ch.B. is £60.¹ The fees for Ch.M. and M.D. examinations are £25. The fees for the diplomas including one diet of examinations are:

Medical Services Administration	£70
Public Health	£70
Radiodiagnosis	£70
Radiotherapy	£70
Tropical Medicine and Hygiene	£55

¹ Candidates who, under Sections XII and XIII of the Regulations (pp 130-1), are exempted from the first and second divisions of the examinations are required, after passing the final division, to pay a fee for the First and Second Professional Examinations before they can be admitted to the M.B., Ch.B. degrees.

Faculty of Medicine—Medicine

Psychiatry:—

Part I Course	£20
Part II Course (Psychological Medicine and Neurology)	£40
Part II Course (for those candidates who already have neurological experience and are not required by the regulations to attend a course in Neurology)	£25
Part I Examination	£8
Part II (a) Examination	£6
Part II (b) Examination	£6

All diploma candidates on acceptance pay a deposit of £5 on account of tuition fees payable on enrolment; this sum is forfeited in the case of withdrawal later than 31st August.

The fee for the Certificate in Medical Illustration is £40 per annum.

A fee of £3 is payable in respect of late payment of the annual, Diploma and Certificate fees.

The single-class fee, for tuition, for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class and £10 for a three-term class, but the fee for a two- or three-term class which meets on fewer than thirty occasions is £5. A practical class counts as a separate class, but when taken in conjunction with the theoretical course in the same subject, the combined fee for the lecture and practical class is £7, 10s., £12 and £15 for classes of one, two or three terms respectively. Non-graduating students taking more than one class are required to pay the annual fee.

Laboratory deposits, refunded at the end of the course less a deduction for breakages, are exigible in the following classes: Biochemistry £1, 10s.; Chemistry £3; Microscopic Anatomy £1; Pathology £1, 10s.

The fee for re-examination for subjects of the M.B., Ch.B. degrees is £1, 10s. per subject. The re-examination fee for Ch.M. and M.D. is £6 per section. The fees for re-examination in the subjects or parts of the diplomas are:—

Psychiatry: Part I	£4
Part II(a)	£3
Part II(b)	£3
Public Health	£7, 10s.
Radiodiagnosis: Physics	£3
R.D. I	£3
R.D. II	£6
Radiotherapy: Physics	£3
R.T. I	£3
R.T. II	£6
Tropical Medicine and Hygiene	£1, 10s. per subject.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November, and after at the Matriculation Office, Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon, Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

Fees and Entry for Examinations

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree and diploma and certificate students are required to submit the following documents, duly completed:—

- Matriculation Form A
- Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)
- Form of Account for fees (where these are payable by local authority or other public body)
- Permit to Matriculate
- X-ray Certificate
- Carnegie Trust Coupon (if any).

Matriculation Forms and the form of account for fees are available at the place of enrolment.

Non-graduating students are required to submit the documents detailed above along with particulars of the classes to be attended.

Non-matriculated students paying an entrance fee of £1 and taking classes marked with an asterisk on the table of courses require to submit:—

- Entrance Form C
- Enrolment Form
- X-ray Card.

Students who require evidence of enrolment in order to obtain payment of their Grants from local authorities, should apply in person for an appropriate certificate.

Enrolment for Degree and Diploma Examinations

Candidates for degree, diploma or certificate examinations must be matriculated for the academic year in which the examination falls. They must enter for each examination at which they wish to appear and must state the subject or subjects in which they wish to be examined. On entering for examination they must present their matriculation cards at the Matriculation Office. Candidates for the M.B., Ch.B. degrees must also (at a later date, see below) show their class certificates at the Dean's Office, New Buildings.

Entries for Professional, Diploma and Certificate examinations are received at the Matriculation Office, The Old College, from 10 to 12.30 and 2-4 during term and from 10-12.30 during the summer vacation, on the following dates:—
M.B., Ch.B.

September-November 1959 examinations

First Professional	21st Aug. 1959
Second Professional	31st Aug. 1959
Third Professional	1st Sept. 1959
Final Professional (Forensic Medicine, Psychological Medicine and Public Health)	2nd Sept. 1959
Final Professional (Medicine, Surgery and Obstetrics)	12th Oct. 1959

March 1960 examinations

First Professional	16th Feb. 1960
Second Professional	25th Feb. 1960
Final Professional (Psychological Medicine)	18th Feb. 1960

Faculty of Medicine—Medicine

June-July 1960 examinations

First Professional	26th May 1960
Third Professional	25th May 1960
Final Professional (Medicine, Surgery and Obstetrics) .	2nd May 1960
Final Professional (Forensic Medicine and Public Health)	25th May 1960

September 1960 examinations

First Professional	16th Aug. 1960
Second Professional	29th Aug. 1960
Third Professional	30th Aug. 1960
Final Professional (Forensic Medicine, Psychological Medicine and Public Health)	31st Aug. 1960

M.D.

December graduation theses to be lodged on or before .	1st Oct. 1959
Summer graduation theses to be lodged on or before .	1st Apr. 1960

Ch.M.

December graduation—

Theses to be lodged on or before	1st Oct. 1959
Clinical, Oral and Practical	by 6th Oct. 1959

Summer graduation—

Theses to be lodged on or before	1st Apr. 1960
Clinical, Oral and Practical	by 1st May 1960

D.M.R.D.

March examination	17th Feb. 1960
June-July examination	9th May 1960
September examination	16th Aug. 1960

D.M.R.T.

March examination	17th Feb. 1960
June-July examination	9th May 1960
September examination	16th Aug. 1960

DIP. PSYCH.

March examination	17th Feb. 1960
September examination	16th Aug. 1960

D.P.H.

June-July examination	17th Feb. 1960
September examination	16th Aug. 1960

D.T.M. & H.

December examination (Part I)	9th Nov. 1959
March examination (Parts I and II)	17th Feb. 1960
June-July examination (Part II)	9th May 1960

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry. M.D. and Ch.M. theses may be lodged later than the advertised dates only with the special permission of the Dean, the utmost extension of

Entry for Examinations

time being ten days. The late fee of £2 will be exacted in such cases. Candidates whose theses are thus submitted late are not eligible for medals and other similar awards.

If a degree or diploma candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown be allowed to appear at a subsequent diet without the payment of the re-examination fee. If a candidate appears for part of an examination but, without giving notice, does not appear for another part, for which he had entered, he will be held to have failed in the part for which he did not appear. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh."

Production of Class Certificates

Class certificates and examination cards must be shown at the Dean's Office, New Buildings, at the times stated below. The examination card, when stamped with the words "Certificates examined" constitutes the candidate's card of admission to the examination.

September-November 1959 examinations

First Professional	16th Sept. (10-12)
Second Professional	17th Sept. (10-12)
Third Professional	22nd Sept. (10-12)
Final Professional (Psychological Medicine, Forensic Medicine and Public Health)	21st Sept. (10-12)
Final Professional (Medicine, Surgery and Obstetrics)	19th Nov. (10-1)

March 1960 examinations

First Professional	14th Mar. (10-1)
Second Professional	11th Mar. (10-1)
Final Professional (Psychological Medicine)	14th Mar. (2.30-4)

June 1960 examinations

First Professional	22nd June (2-4)
Third Professional	22nd June (10-1)
Final Professional (Medicine, Surgery and Obstetrics)	{ 20th June (10-1, 2.30-4) 21st June (10-1, 2.30-4)
Final Professional (Forensic Medicine and Public Health)	
	24th June (10-1)

September 1960 examinations

First Professional	14th Sept. (10-12)
Second Professional	15th Sept. (10-12)
Third Professional	14th Sept. (10-12)
Final Professional (Psychological Medicine, Forensic Medicine and Public Health)	13th Sept. (10-12)

GRADUATION

Registration and Entry

Every student, who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, and must pay £1 for registration as a member of the General Council, if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards and current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Men graduands for the degrees of M.B., Ch.B., Ph.D., Ch.M., and M.D., are requested to appear in black or dark coloured clothes, white starched collars, and white bow neck-ties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown worn for the degrees of M.B., Ch.B. and Ch.M. is one of black silk or stuff with long sleeves. The hoods are as follows:—For M.B., Ch.B.—black silk, lined with crimson silk, and bordered with white fur; for Ch.M.—black velvet, lined with golden silk. For the academic dress for other degrees see UNIVERSITY CALENDAR “Academic Costume.” There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation in Medicine

The Sponsio Academica at graduation, made publicly by the Graduands in Medicine as part of the Graduation Ceremonial, all standing whilst it is read to them by the Dean of the Faculty of Medicine is:—“Ego siue Baccalaureatus siue Magisterii siue Doctoratus in Arte Medica titulo iam donandus sancte coram Deo cordium Scrutatore spondeo, me in omni grati animi officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum perseueraturum. Tum porro artem Medicam caute caste probeque exercitaturum, et quoad potero omnia ad aegrotorum corporum salutem conducentia cum fide procuraturum. Quae denique inter medendum uisa uel audita sileri conueniat non sine graui causa ulgaturum. Ita praesens spondenti adsit Numen.”¹

¹ TRANSLATION:—“Whereas the distinction of a degree in Medicine is now to be conferred upon me, I solemnly promise before God, the Searcher of hearts, that I will to my latest breath abide steadfast in all due loyalty to the University of Edinburgh. Further, that I will practise the art of Medicine with care, with purity of conduct and with uprightness, and, so far as in me lies, will faithfully attend to everything conducive to the welfare of the sick. Lastly, that, whatever things seen or heard in the course of medical practice ought not to be spoken of, I will not, save for weighty reason, divulge. This I promise, as I hope for the gracious blessing of Heaven.”

REGULATIONS FOR THE DEGREES OF M.B., Ch.B., M.D. and Ch.M.¹

I. Four degrees in Medicine and Surgery shall be conferred by the University of Edinburgh, namely:—Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.) and Master of Surgery (Ch.M.). The degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Medicine, and the degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the Senatus, with the approval of the University Court, the University may confer diplomas in special branches of medical and surgical practice on graduates in Medicine and Surgery of the University of Edinburgh, and also on other legally qualified medical practitioners who shall have pursued a prescribed course of study for the diploma in the University.²

Academical Year

III. The academical year shall commence on the first day of October. Each academical year shall extend to not less than thirty teaching weeks, divided into three terms, each of about ten weeks' duration. Two such terms shall, for the purpose of reckoning the duration of Medical study, be deemed the equivalent of one winter session, and one such term shall be deemed the equivalent of one summer session. The days on which courses of instruction shall open and close in each term shall be determined by the Senatus, with the approval of the University Court.

Preliminary Qualifications

See Programme of Admission, pp. 3-4.

Professional Education for the Degrees of Bachelor of Medicine and Bachelor of Surgery (M.B., Ch.B.)

VIII. Candidates shall be admitted to the degrees of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions with reference to Medical study:—

1. The candidate must have pursued Medical study for not less than five years,³ by attending courses of instruction in the subjects of the curriculum during not less than fifteen terms.

2. During each of the twelve terms preceding the fifth or final year³ the candidate must have attended one or more of the courses of instruction in the subjects of the curriculum.

3. During the fifth or final year³ of his curriculum the candidate must have pursued clinical study for at least nine months, or three terms, at the Royal Infirmary of Edinburgh, or at one or more of such other public hospitals or dispensaries, British or foreign, as may be recognised for the purpose by the University Court, after consultation with the Senatus.

4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, extending

¹ University Court Ordinance, No. 12. For the degrees of D.Sc. and Ph.D., see under Programme of Special Study and Research.

² University diplomas are granted in Radiodiagnosis, in Radiotherapy, in Psychiatry, in Public Health, in Tropical Medicine and Hygiene, and Medical Services Administration.

³ Under section VIII 4 (d) of this Ordinance, the Senatus has extended the duration of the medical curriculum to six years for students entering in or after October 1948.

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over not less than the number of terms specified in each case, and including such class examinations as may be prescribed in connection with the several courses:—

(1) Chemistry (including Organic Chemistry)	2 terms
(with Practical Chemistry)	2 terms
(2) Physics (with practical work)	2 terms
(3) { Biology } or { Botany (with practical work) }	3 terms
{ Practical Biology } or { Zoology (with practical work) }	2 terms
(4) Anatomy and Practical Anatomy ¹	5 terms
(5) Physiology and Practical Physiology	3 terms
(6) Pathology (including Bacteriology) and Practical Pathology	3 terms
(7) Materia Medica, Pharmacology and Therapeutics	2 terms
(8) Psychological Medicine (Psychiatry)	1 term
(9) Forensic Medicine	1 term
(10) Public Health	1 term
(11) Midwifery and Diseases peculiar to Women and Infants	2 terms
(12) Surgery	2 terms
(13) Medicine	2 terms

Provided always that—

(a) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Studies, to determine from time to time the number of meetings of which a course shall consist, the number of meetings of any course to be held in one term, the cases in which two half-courses shall be deemed equivalent to a full course, and the cases in which the subjects of any course may be subdivided or combined for the purposes of study.

Under similar conditions the Senatus shall have power to withhold recognition from one or other of the alternative courses specified in the third group of subjects above mentioned.

(b) It shall be the duty of each of the Professors and Lecturers to submit to the Board of Studies annually before the end of the second term of the academical year a syllabus and a scheme specifying what proportion of his course or courses shall be devoted to lectures, practical work, examinations, and tutorial instruction respectively. The Board of Studies shall transmit the syllabuses and schemes to the Faculty of Medicine, who shall submit them to the Senatus, with such observations as they may think fit to make thereon. The Senatus shall thereafter transmit them, with such observations as it may think fit to make thereon, to the University Court for their approval.

(c) The Senatus, with the approval of the University Court, shall have power to determine that the course of instruction in any subject shall include practical work, to prescribe the order in which the several courses of instruction in the subjects of the curriculum shall be attended, and to limit the number of such courses that may be attended in any term.

(d) The Senatus, with the approval of the University Court, shall have power, by regulations made from time to time, to increase the number of terms over which a course of instruction in any subject of study shall extend, or to introduce into the curriculum additional subjects of study, or to extend the duration of the curriculum beyond the period of fifteen terms.² The University Court shall communicate to the General Council any such regulations made by the Senatus relative to the introduction into the curriculum of additional subjects of study, or to the extension of the duration of the curriculum beyond

¹ Certificates of attendance on Practical Anatomy must express, not only the number of months engaged in dissection, but the names of the parts dissected and the degree of care with which the dissections have been made. Students are recommended not to appear for examination in Anatomy, with a view to a degree, until they have dissected the human body at least once.

² See p. 125, note 3.

the period of fifteen terms; and any representation made thereon by the General Council within two months from the date of communication shall be taken into consideration by the University Court before any such regulation is approved.

5. The candidate must have attended for at least three years, or nine terms, the Medical and Surgical Practice of the Royal Infirmary of Edinburgh, or of a general hospital which accommodates not fewer than eighty patients, and possesses distinct staffs of physicians and of surgeons, and is recognised by the University Court, after consultation with the Senatus.¹

6. The candidate must have attended in the Royal Infirmary of Edinburgh or in any other general hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Surgery extending over not less than nine months, or three terms. These courses may be conducted by the Professor of Clinical Surgery, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of the hospital, and shall consist of regular instruction at the bedside or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Surgical Out-patient Department, together with clinical lectures or demonstrations.

7. The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other general hospital defined and recognised as hereinbefore provided,¹ a course or courses of instruction in Clinical Medicine extending over not less than nine months, or three terms. These courses may be conducted by a Professor of Clinical Medicine, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of the hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Medical Out-patient Department, together with clinical lectures or demonstrations.

Note.—Students are required to attend a tutorial class of Clinical Medicine either previous to appointment as clinical clerks or during the first three months' tenure of clerkships, and in either case they must obtain a certificate that they have attended the tutorial class with regularity, and have acquired satisfactory proficiency in the work of the class.

Students shall not be permitted to act as clinical clerks after the termination of their first three months' clerkship unless they have obtained the above certificate.

8. The candidate must have attended a course of instruction in Mental Diseases and in Ophthalmology of such duration, and so apportioned between lectures, demonstrations and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time prescribe; he must also have attended a course of practical instruction in Operative Surgery of such scope and duration as may from time to time be determined by the same authority.

9. The candidate must have attended a course of instruction in Practical Materia Medica, including Pharmacy, consisting of not less than twenty-five meetings, at a university or recognised medical school, or have dispensed drugs for a period of three months in a public hospital or dispensary, or in the establishment of any chemist and druggist, or pharmacist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain, or of the Pharmaceutical Society of Ireland, respectively.

10. The candidate must, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, have

¹ The Western General Hospital, Edinburgh, the Eastern General Hospital, Edinburgh, and the Northern General Hospital, Edinburgh, are recognised.

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attended for at least six months, or two terms, the out-patient practice of a public hospital or dispensary, and have acted for at least six months, or two terms, as clinical clerk¹ in the Medical Department, for at least six months, or two terms, as clinical clerk or dresser¹ in the Surgical Department, and for such time as the Senatus, with the approval of the University Court, may determine, as dresser in the Surgical Out-patient Department of a recognised general hospital.

11. The candidate must have received at a public hospital or dispensary, to such an extent and under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, instruction including practical instruction in all or any of the following subjects, or in such other special departments as may from time to time be determined, namely—Post-mortem Examinations, Infectious Diseases, Gynaecology, Diseases of Children, Diseases of the Ear, Nose and Throat, Diseases of the Skin, Tuberculosis and Venereal Diseases.

12. The candidate must have conducted twenty cases of labour, under such conditions as the Senatus, with the approval of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the Maternity Department of a general hospital or other public charitable institution, and have conducted personally twelve, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.

In accordance with the recommendations of the General Medical Council, adopted by the Senatus Academicus, it is required that, before commencing the study of Practical Midwifery, every student shall have held the offices of clinical medical clerk and surgical dresser, and have attended a course of lectures on Surgery and Midwifery. Further, it is required that every student in his final year shall give regular attendance during a period of three months at the Simpson Memorial Maternity Pavilion, where clinics are conducted. Further, he must attend the demonstrations in the museum and laboratory of the Department of Midwifery in the University. Attendance on outdoor cases shall be under the superintendence of the Obstetricians of the Simpson Memorial Maternity Pavilion, Royal Infirmary. Before conducting cases the student must have conducted six cases in the Hospital.²

13. The candidate must have been properly instructed in Vaccination at a public vaccination station, by a public vaccinator, authorised by a proper government authority to grant Certificates of Proficiency in Vaccination.³

14. The candidate must have been properly instructed in the administration of Anæsthetics under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.

15. The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, or on the practice of any hospital or dispensary, to be presented by the candidate: Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate bearing not only that he has regularly attended the course, but also that he has duly performed the work thereof.

¹ Candidates must be members of the Class of Clinical Medicine, or of Clinical Surgery, as the case may be.

² Students will not be permitted to conduct their normal deliveries while resident in the Chalmers Street Midwifery Hostel. They must have completed their normal deliveries prior to their period of residence in the Hostel.

³ The above extract from the Ordinance is now out-dated by the legislative changes which were made at the time of the institution of the National Health Service, involving the abolition of compulsory small-pox vaccination and of the official arrangements associated with it. e.g. the appointment of public vaccinators. Instruction on the history, principles, methods and results of small-pox vaccination is given in the lecture class of Bacteriology; practical instruction in vaccination is provided at the University General Practice Teaching Unit and in the class of Child Life and Health.

M.B., Ch.B., M.D. and Ch.M. Regulations

IX. With respect to the places and institutions at which Medical study may be pursued, the following regulations shall have effect:—

1. Not less than two years, or six terms, of Medical study must be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.

2. Subject to the provisions of Section VIII, Sub-section 3, the remaining three years, or nine terms, of Medical study may be spent in attendance on courses of instruction in the subjects of the curriculum at any university of the United Kingdom, or at such Indian, Colonial or foreign university, or at such college incorporated with or affiliated to a university, or at such medical schools, or under such teachers as may be recognised for the purpose by the University Court, after consultation with the Senatus.

3. Of the subjects of study specified in Section VIII, Sub-section 4, not less than one-half the number must be studied at the University of Edinburgh, or at some other university of the United Kingdom, or at a recognised Indian, Colonial or foreign university, or at a recognised college incorporated with or affiliated to a university: Provided always that, for the purpose of reckoning the number of the said subjects studied at such university or college, any of these subjects may be included which has been studied by attendance on a prescribed course of instruction therein, or on a part of such course extending over not less than two terms.

4. Subject to the provision of Sub-section 3 immediately preceding, the prescribed courses of instruction in any of the subjects of study specified in Section VIII, Sub-section 4, may be attended at one or more recognised medical schools, or under one or more recognised teachers.

5. All candidates not matriculated students of the University, attending, for the purposes of graduation in the University, the courses of instruction of recognised extra-academical teachers in Edinburgh, must, during each academic year in which such course or courses are attended, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by matriculated students of the University, and having, in respect of such payment, a right to the use of the library of the University.

6. The fee for attendance, for the purpose of graduation, on the courses of instruction of recognised extra-academical teachers in Edinburgh, shall be not less than the amount exigible for the corresponding courses in the University.

7. The University Court shall not recognise as qualifying for admission to examination in any of the subjects specified in Section VIII, Sub-section 4, the course of instruction of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public college or institution, who by the terms of his appointment is required to teach more than one subject of Medical study therein, may be recognised under Sub-section 2 of this Section as a teacher of any one of the subjects which he teaches.

8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by His Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.

9. It shall be in the power of the University Court, if they shall see cause, at any time to withdraw or suspend any recognition which they may have granted.

10. The University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied, after consultation with the Senatus, that their courses of instruction are equivalent to the courses prescribed for graduation in the University.

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Professional Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery¹

X. The examination for the degrees of Bachelor of Medicine and Bachelor of Surgery shall include the following subjects, arranged in the following divisions, namely:—*First*, Chemistry, Physics, Botany and Zoology (or Biology); *Second*, Anatomy and Physiology; *Third*, Pathology including Bacteriology, and Materia Medica including Pharmacology and Therapeutics; *Fourth*, Psychological Medicine,² Forensic Medicine, Public Health, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, and Midwifery and the Diseases peculiar to Women and Infants.

No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject, and fulfilled the prescribed conditions with reference thereto.

The examination in each subject shall be conducted both orally and in writing; and in those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical acquirements of the candidates.

XI. The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restricted as to his attendance on qualifying courses of instruction in any of the subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

The Senatus, with the approval of the University Court, shall have power, by regulations made from time to time, to alter the number of the divisions specified in Section X, to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall, for the purposes of examination, be subdivided or combined or transferred from one division to another: Provided always that the final decision shall in all cases include practical and clinical examinations in Medicine, Surgery and Midwifery, including Diseases peculiar to Women.

XII. This Section of Ordinance No. 12 is altered by Ordinance No. 42 (1924) to read as follows:—

The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who at any other university of the United Kingdom or elsewhere has attended an approved course of instruction and passed an approved examination in any of the subjects comprised in the first or second division specified in Section X, to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Edinburgh; Provided always that in the judgment of the Senatus, the course of instruction is substantially equivalent to the course prescribed for graduation in the University of Edinburgh, that the standard of the examination is satisfactory, and that, notwithstanding the provisions of Section IX (1) and (2), not less than three years or nine terms of medical study shall be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.

¹ See pp. 144-45 for new regulations governing certificates of attendance.

² The Senatus, under Section XI of the Ordinance, with the approval of the University Court, have introduced the subject of Psychological Medicine into the final professional examination in the penultimate year of the curriculum.

M.B., Ch.B., M.D. and Ch.M. Regulations

XIII. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein, at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

In the case of a candidate who has, at the University of Edinburgh, or at any university of the United Kingdom, or at any other university specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics, Botany, Zoology, or in Biology (including therein Botany and Zoology), qualifying for a degree in Science or in Arts, the Senatus shall have power to exempt him from passing the examination in the corresponding subject or subjects comprised in the first division: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary or Entrance examination.

XIV. A candidate who has passed the examinations in the subjects comprised in the first division may be admitted to examination in the subjects of the second division after the end of the sixth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XV. A candidate who has passed the examinations in the subjects comprised in the second division may be admitted to examination in the subjects of the third division after the end of the ninth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XVI. A candidate who has passed the examinations in the subjects comprised in the third division may be admitted to examination in the subjects of the fourth or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to the final examinations in Medicine, Surgery and Midwifery prior to the fifteenth term of Medical study.

Note.—Final Professional Examination. (a) Forensic Medicine and Public Health—Candidates taking these subjects for the first time must appear in both at one examination, and candidates who fail in both subjects must also re-appear in both at one examination. (b) Midwifery, Surgery and Medicine—A candidate must normally pass all three subjects together, but any candidate who attains a sufficiently high standard in each of two subjects shall pass in these two subjects, even though he has failed to pass in the third subject. (c) Psychological Medicine—The examination consists of a written, a clinical and an oral examination. In order to pass, a candidate must reach a sufficiently high standard on the written paper and on the combined clinical and oral examinations.

A candidate who has passed in two subjects in accordance with this Regulation may re-appear for examination in the remaining subject only after he has taken a further course of study in the subject, of at least three months' duration; and he must obtain a higher percentage of marks than is required when the three subjects of this examination are passed together. A candidate who passes in two subjects but who fails to pass the remaining subject within a period of nineteen months thereafter, must re-appear for examination in all three subjects.¹

XVII. If any candidate at any of the examinations be found unqualified in a subject or subjects, he may not again be admitted to the examination unless

¹ See *Fifth and Final Years*, p. 145.

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he has pursued such further study, for such time, and under such conditions, as the Faculty of Medicine may prescribe.¹

Note.—A student, who, after having had three opportunities of appearing for examination, has failed to pass in a subject (except subjects of the First, Second and Third Professional Examinations) is required to re-attend a recognised course of instruction in the subject.

XVIII. If any candidate at any of the examinations be found to have passed in a subject or subjects with sufficient merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects in the same examination.

XIX. Every candidate for graduation must deliver, on or before such day as the Senatus may from time to time determine,² to the Dean of the Faculty of Medicine, a declaration in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

XX. After the candidate has fulfilled the prescribed conditions and has satisfied the examiners in the subjects of the fourth or final division of the examination, the Dean of the Faculty of Medicine shall on behalf of the Faculty report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.

XXI. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their course of Medical study, except in so far as is provided in Section XXVII hereof.

Professional Examination for Degree of Doctor of Medicine (M.D.)³

XXII.⁴ 1. Subject to the conditions hereinafter specified, the degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and has been engaged in medical practice or other work bearing directly on his profession for at least two years.

2. Each candidate for the degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a thesis on any branch of knowledge comprised in the second, third and fourth divisions of the examination for the degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting subjects which are exclusively surgical; and the thesis accompanied by a declaration signed by the candidate that the work has been done and the thesis composed by himself, shall be lodged

¹ Satisfactory certificates that the candidate has complied with the requirements of the Faculty must be produced when candidates re-enter for examination.

² On or before the date for showing certificates, etc., for the final examination (see p. 123). This declaration is appended to the curriculum Schedule for the final examination, and must be attested and signed before the Schedule is lodged.

³ Candidates, settled for a period of years in foreign parts, who have complied with all the regulations for the degree of M.D. or for the degree of Ch.M., but who cannot appear personally to receive the degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the degree conferred on them *in absentia*.

⁴ Ordinance No. 87, 1949.

with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.¹

3. After submitting his thesis, the candidate may be required by the Faculty of Medicine to present himself for examination, which may be a written, or oral, or clinical, or practical test, or any combination of these, in the branch or Department of Medicine in which the subject of the thesis falls.

Note.—No thesis will be approved which does not contain either the results of original investigations in Practical Medicine, Surgery, Midwifery or in some of the sciences embraced in the curriculum for the Bachelor's and Master's degrees; or a critical exposition of the researches and opinions of others on the subject selected by the candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated. For regulations as to entering for examinations and lodging theses, see pp. 121-3.

Professional Examination for Degree of Master of Surgery (Ch.M.)²

XXIII.³ 1. Subject to the conditions hereinafter specified, the degree of Master of Surgery may be conferred on any candidate who has obtained the degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and has produced a certificate showing that, after having received the degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for a period of at least five years in surgical practice or scientific work bearing directly on his profession.

2. Each candidate for the degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Surgical Pathology and Bacteriology, Clinical Surgery and Operative Surgery: Provided that a candidate may profess, with the approval of the Faculty of Medicine, one of the major special branches of surgery, and that such part of his examination as may be deemed appropriate shall be upon the subject of that special branch. In special circumstances, and if the thesis presented by the candidate, in terms of the requirements of sub-section 4, is of exceptional merit, the Faculty of Medicine may, if it sees fit, exempt a candidate from part of such examination.

3. A candidate shall not be admitted to the examination in the subjects specified in sub-section 2 until a period of at least four years has elapsed after he has received the degrees of Bachelor of Medicine and Bachelor of Surgery.

4. Each candidate for the degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a thesis on any branch of knowledge comprised in the second, third or fourth divisions of the examination for the degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting subjects that are exclusively medical: and the thesis, accompanied by a declaration signed by the candidate that the work has been done and the thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.¹ The Faculty may, if it sees fit, before approving the thesis, require the candidate to present himself for oral or other examinations on the subject matter thereof.

¹ Candidates are required to lodge two copies of their theses. Both copies of the thesis (if accepted) will be retained by the University, but after graduation as M.D. a candidate may borrow one copy of this thesis for a limited period, on obtaining permission from the Dean to do so, and on depositing £1. If a thesis includes expensive diagrams, etc., a single copy of such portions of the thesis will be accepted, but, where possible, photographic copies of the originals should accompany the second copy of the thesis. Candidates are required to submit with the thesis, but not bound with it, three copies of a summary setting out in approximately 250-500 words the main argument and conclusions of the thesis. The University shall have the right to publish such summaries of approved theses, or to authorise their publication by any other learned body. Candidates are required to type or write their thesis on paper, 11 in. by 8½ in., with margins 1½ in. at each side. For handwritten theses the paper should have faint lines between the two margins. The thesis is to be written, or typed, on one side of each leaf only; and the subject of the thesis and name of the author should appear on the front of the outside cover, and, if the thesis is of sufficient thickness, also along the back of the cover. There is no regulation as to length of thesis.

² See p. 132, note 3.

³ Ordinance No. 87, 1949.

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Summary of Requirements for the Degrees of M.B., Ch.B., under the foregoing Ordinance

During the curriculum a student must attend a course or courses of instruction in each of the following subjects:—

Chemistry (including Organic Chemistry)	3 terms
Practical Chemistry	3 terms
Physics (with practical work)	2 terms
Biology	3 terms
Practical Biology	2 terms
Anatomy (including Embryology)	5 terms
Practical Anatomy	5 terms
Microscopic Anatomy	3 terms
Neuro-anatomy	2 terms
Physiology (including Biochemistry)	5 terms
Practical Physiology (including Biochemistry)	5 terms
Clinical Chemistry (Course I)	2 terms
(Course II)	1 term
Clinical Methods	1 term
Pathology	4 terms
Pathology (practical)	3 terms
Bacteriology	4 terms
Bacteriology (practical)	3 terms
Bacteriology (clinical)	6 meetings
Pathology (Morbidity Anatomy)	3 terms
Pharmacology and Therapeutics	4 terms
Pharmacology (practical)	2 terms
Combined demonstrations	3 terms
Applied Anatomy	3 terms
Applied Physiology	1 term
School Medical Service demonstration	1 meeting
Clinical Medicine (including tutorials)	4 terms
Medical Clerk	2 terms
Clinical Surgery (including tutorials)	3 terms
Surgical Clerk and Dresser	2 terms
Forensic Medicine	1 term
Public Health and Social Medicine	2 terms
Obstetrics and Gynæcology	2 terms
Surgery (including Operative Surgery and Surgical Pathology)	3 terms
Medicine	3 terms
Hospital Practice (medical and surgical)	3 years
Psychological Medicine and Psychology	2 terms
Ophthalmology	2 terms
Infectious Diseases	1 term
Clinical Obstetrics	8 weeks' residence period
Clinical and Practical Obstetrics . . .	1 term's attendance at the Simpson Memorial Maternity Pavilion with demonstrations in the University and not less than 12 cases personally conducted.
Clinical Gynæcology	1 term
Child Life and Health	1 term
Diseases of Ear, Nose and Throat	1 term
Dermatology	1 term
Tuberculosis	1 term
Venereal Diseases	1 term
Practical Anæsthetics	6 lectures and 6 personal administrations

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General Practice	1 term
Clinical Therapeutics	1 term
General Practice Lectures	3 meetings

Combined Degrees

The degrees of M.B., Ch.B. may be combined with the degree of B.Sc. with Honours in one of the following subjects : Anatomy, Physiology, Biochemistry, Pathology, Bacteriology or Pharmacology. For details see Faculty of Science Programme.

If the M.A. and M.B., Ch.B. degrees are combined, not more than three full courses common to the two degrees may be used to qualify for the M.A. degree.¹ The minimum time for the combination of M.B., Ch.B. degrees with the Honours B.Sc. degree is seven years, and with the M.A. degree eight years; and for the triple combination of M.B., Ch.B. with any two other degrees, nine years.² The courses for each year for all combined degrees must be approved by the respective Directors of Studies.

¹ Students who are taking a curriculum in Arts in combination with one in Medicine must consult the appropriate Director of Studies (see Faculty of Arts Programme). Applications for admission to the Faculty of Medicine are made in the normal way (see Admission Programme), but through their Director in the case of students in the Faculty of Arts.

² The Senatus may relax this regulation requiring a minimum of nine years for the triple degrees in special cases.

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CURRICULUM FOR THE DEGREES OF M.B., Ch.B.

Students are admitted to begin the curriculum in October each year.

The order of attendance on classes given below must be followed except in special cases authorised by the Faculty after application to the Dean. The earliest dates at which students may appear for the Professional examinations are indicated. Examinations are held in the subjects of the First Professional examination in March, June and September; in the Second Professional examination in March and September; in the Third Professional examination in June and September, and in the Final examination in March and September (Psychiatry), June-July and September (Forensic Medicine and Public Health), and June-July and November-December (Medicine, Surgery, Obstetrics and Gynæcology and Child Life and Health).

First Year—Autumn

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-11	Chem. Prac. A, B Biol. Prac. C, D	Biol. Prac. C, D Chem. Prac. A, B	Chem. Prac. C, D	Chem. Prac. C, D	Biol. Prac. A, B	Biol. Prac. A, B
11.30-12.30	Biology Lecture	Chemistry Lecture	Biology Lecture	Chemistry Lecture	Chemistry Lecture	
2-3	Physics Lecture	Physics Lecture		Physics Lecture	Physics Lecture	
3-5	Phys. Prac. A, B	Phys. Prac. A, B		Phys. Prac. C, D	Phys. Prac. C, D	

First Year—Spring

9-11	Chem. Prac. C, D Biol. Prac. A, B	Biol. Prac. A, B Chem. Prac. C, D	Chem. Prac. A, B	Chem. Prac. A, B	Biol. Prac. C, D	Biol. Prac. C, D
11.30-12.30	Biology Lecture	Chemistry Lecture	Biology Lecture	Chemistry Lecture		
2-3	Physics Lecture	Physics Lecture		Physics Lecture	Physics Lecture	
3-5	Phys. Prac. A, B	Phys. Prac. A, B		Phys. Prac. C, D	Phys. Prac. C, D	

First Professional Examination—Physics.

First Year—Summer

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-10	9.30-10.30 Biology Lecture ¹			9.30-10.30 Biology Lecture ¹		
10-1						
2-3	Chemistry Lecture	Chemistry Lecture		Chemistry Lecture		
3-5	Chem. Prac. A, B	Chem. Prac. A, B		Chem. Prac. C, D	Chem. Prac. C, D	

First Professional Examination—Chemistry and Biology.

Second Year—Autumn

	MONDAY		TUESDAY		WEDNESDAY	THURSDAY		FRIDAY
9-10	Biochemistry Lecture		Biochemistry Lecture		Biochemistry Lecture	Physiology Lecture		Physiology Lecture
10-11	Anatomy Practical		Anat. Pract. A	Anat. Micr. B	Physiology Demonstration	Anat. Micr. A	Anat. Pract. B	Anatomy Practical
11-12	do.		do.		do.	do.		do.
12-1	Anatomy Lecture		Anatomy Lecture		Anatomy Lecture	Anatomy Lecture		Anatomy Lecture
2-5	Phys. Pract. B	Anat. Pract. A	Phys. Pract. A	Anat. Pract. B		Anatomy Practical		Anatomy Practical

Second Year—Spring

9-10	Biochemistry Lecture	Physiology Lecture		Physiology Demonstration	Physiology Lecture		Physiology Lecture	
10-11	Anatomy Practical	Anat. Pract. A	Anat. Micr. B	do.	Anat. Micr. A	Anat. Pract. B	Anatomy Practical	
11-12	do.	do.		do.	do.		do.	
12-1	Anatomy Lecture	Anatomy Lecture		Anatomy Lecture	Anatomy Lecture		Anatomy Lecture	
2-5	Anat. Pract. A	Phys. Pract. B	Anat. Pract. B	Phys. Pract. A	Anat. Pract. A	Bio- chem. Pract. B	Anat. Pract. B	Bio- chem. Pract. A

¹ During first five weeks of term.

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Second Year—Summer

	MONDAY		TUESDAY		WEDNESDAY	THURSDAY		FRIDAY	
9-10	Biochemistry Lecture		Physiology Lecture		Physiology Demonstration	Physiology Lecture		Physiology Lecture	
10-12	Anat. Micr. A	Anat. Pract. B	Anat. Pract. A	Anat. Micr. B	do.	Anat. Pract. B	Phys. Pract. A	Phys. Pract. B	Anat. Pract. A
12-1	Anatomy Regional		Anatomy Regional		Anatomy Regional	Anatomy Regional		Anatomy Regional	
2-5	Anat. Pract. A	Phys. Pract. B	Anat. Pract. B	Phys. Pract. A		Anat. Pract. A	Biochem. Pract. B	Biochem. Pract. A	Anat. Pract. B

Third Year—Autumn

9-10	Anatomy Regional		Anatomy Regional	Anatomy Regional	Anatomy Regional	Anatomy Regional	
10-11	Neuro-Anat. Microscopic D	Anat. Pract. C	Anatomy Practical D	Physiology Demonstration	Anatomy Practical C	Neuro-Anat. Microscopic C	Anat. Pract. D
11-12	do.		do.	do.	do.	do.	
12-1	Physiology Lecture		Biochemistry Lecture	do.	Physiology Lecture	Physiology Lecture	
2-4	Anat. Pract. D	Neuro-Anat. Brain Dissection C	Anatomy Practical		Anat. Pract. C	Phys. Pract. D	Neuro-Anat. Brain Dissection D
4-5	do.		do.		do.	do.	do.

Third Year—Spring

9-10	Anatomy Regional		Anatomy Regional	Anatomy Regional	Anatomy Regional	Anatomy Regional	
10-11	Neuro-Anat. Microscopic D	Anat. Pract. C	Anatomy Practical D	Physiology Demonstration	Anatomy Practical C	Neuro-Anat. Microscopic C	Anat. Pract. D
11-12	do. ¹	Anat. Pract.	do.	do.	do.	do.	Anat. Pract.
12-1	Physiology Lecture		Biochemistry Lecture	do.	Physiology Lecture	Physiology Lecture	
2-4	Anat. Pract. D ¹	Neuro-Anat. Brain Dissection C	Anatomy Practical		Anat. Pract. C	Phys. Pract. D	Neuro-Anat. Brain Dissection D
4-5	do. ²				do.	do.	do.

Second Professional Examination—(a) Anatomy including Embryology.

(b) Physiology including Biochemistry.

¹ First four weeks only, and for the remainder of term the class of Practical Anatomy, Section D (hitherto 3-5 p.m.) meets at this hour.

² First four weeks only and for the remainder of term the class (optional) of Medical Applied Psychology meets from 3-5 p.m.

Third Year¹—Summer

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT.
9-10	Bacteriology Lecture	Pharmacology Lecture		Pharmacology Lecture	Pathology Lecture	
10-11	Pathology Lecture	Social Medicine	Psychological Medicine	Bacteriology Lecture	Social Medicine	
11-1	Clin. Meth. Med. A, B, C, D, E, F	Clin. Meth. Surg. G Clin. Chem. Lecture 11-12 Clin. Methods Lecture 12-1	Clin. Meth. Med. A, C, D, E, G	Clin. Meth. Surg. B, F	Clin. Meth. Med. A, B, C, D, F, G	Clin. Meth. Surg. A, E
2.15-4.15	Bacteriology Pract. W Clin. Chem. X	Bacteriology Pract. X Clin. Chem. W		Bacteriology Pract. Y Clin. Chem. Z	Bacteriology Pract. Z Clin. Chem. Y	

Fourth Year²—Autumn

9-10	Pharmac. and Ther. Lecture	Medicine Lecture	Pharmac. and Ther. Lecture	Medicine Lecture	Medicine Lecture	Psychological Medicine Elective Course ³
10-11	Pathology Lecture	Pharmac. and Ther. Lecture	Bacteriology Lecture	Pathology Lecture	Pathology Lecture	
11-1	Clin. Chem. A, B Clin. Med. C, D, E, F, G	Clin. Med. A, B, C, D, E, F, G, 11-12 Clin. Med. Lecture, 12-1	Clin. Chem. C, D Clin. Med. A, B, E, F, G	Clin. Chem. E, F Clin. Med. A, B, C, D, G	Clin. Chem. G Clin. Med. A, B, C, D, E, F	
2-4	Path. Pract. W, X Bact. Pract. Y Phar. Pract. Z	Path. Pract. Y, Z Bact. Pract. W Phar. Pract. X		Path. Pract. W, Z Bact. Pract. X Phar. Pract. Y	Path. Pract. X, Y Bact. Pract. Z Phar. Pract. W	
4-5		Medicine Demons.		Medicine Demons.	Medicine Demons.	

Fourth Year²—Spring

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-10	Pharmac. and Ther. Lecture	Medicine Lecture	Pharmac. and Ther. Lecture	Medicine Lecture	Medicine Lecture	Psychological Medicine Elective Course ³
10-11	Pathology Lecture	Pharmac. and Ther. Lecture	Bact. Lecture	Pathology Lecture		
11-1	Clinical Medicine	Clin. Medicine Clin. Medicine Lecture 12-1	Clinical Medicine	Clinical Medicine	Clinical Medicine	
2-4	Path. Pract. W, X Bact. Pract. Y Phar. Pract. Z	Path. Pract. Y, Z Bact. Pract. W Phar. Pract. X		Path. Pract. W, Z Bact. Pract. X Phar. Pract. Y	Path. Pract. X, Y Bact. Pract. Z Phar. Pract. W	
4-5		Medicine Demonstration		Medicine Demonstration	Medicine Demonstration	

¹ For Clinical Chemistry, Clinical Methods in Medicine and Surgery, and Practical Bacteriology, the students are divided into sections.² For Practical Pathology, Practical Bacteriology and Practical Pharmacology the students are divided into four sections, W, X, Y, Z. For Medicine Demonstrations the students are divided into three sections.³ See p. 161.

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Fourth Year¹—Summer

NOTE.—School Health Service demonstrations will be given to students in groups. Details of the arrangements will be intimated.

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-10	Medicine Lecture ^a	Medicine Lecture ^a	Pharmac. and Ther. Lecture	Medicine Lecture ^a	Medicine Lecture ^a	
10-11	Pharmac. and Ther. Lecture	Pathology Lecture	Bact. Lecture		Pathology Lecture	
11-1	Clinical Surgery	Clinical Surgery ^a	Clinical Surgery	Clinical Surgery	Clinical Surgery	
2-4	Pathology Practical W, X	Pathology Practical Y, Z		Pathology Practical W, Z	Pathology Practical X, Y	
4-5		Medicine Demonstration		Medicine Demonstration	Medicine Demonstration	

Third Professional Examination—(a) Pathology and Bacteriology; (b) Pharmacology and Therapeutics.

Fifth Year⁴—Autumn

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Obstetrics and Gynaecology Lecture	Obstetrics and Gynaecology Lecture	Ophthalmology Lecture	Obstetrics and Gynaecology Lecture	Obstetrics and Gynaecology Lecture
10-11	Surgery Tutorials	Surgery Lecture	Surgery Lecture	Surgery Lecture	Surgery Lecture
11-1	Between 11 and 1 Sections attend as follows from Mon. to Sat.:— 11-12 { Mon., Wed., Fri. { A Clinical Ophthalmology { B Clinical Dermatology { Tues., Thurs., Sat. { A Clinical Dermatology { B Clinical Ophthalmology 12-1 { Mon., Wed., Fri. B Diseases of Ear, Nose and Throat (Clinical, including lecture { Tues., Wed., Thurs. A } demonstrations) 11-1 Daily, except Sat. { C, D Clinical Surgery { E, F Clinical Medicine				
2-3	Clinical Chemistry Lecture	Psych. Med. Clin. A, B, C	Gen. ^a Pract. Teaching E, F	Clinical Chemistry Lecture	Applied Physiology
3-4	3.30-5 Infect. Diseases C	Gen. ^a Pract. Teaching E, F	do.	3.30-5 Infect. Diseases D	Gen. ^a Pract. Teaching E Ophthalmology Lecture
4-5	Derm. Lect. A, B	do.	Applied Anatomy A, B, C, D	do.	Derm. Lect. A, B Gen. ^a Pract. Teaching F

¹ For Practical Pathology the students are divided into four sections, W, X, Y, Z. For Medicine Demonstrations the students are divided into three sections.

² During first seven weeks of term.

³ During the summer term, lectures on Anæsthetics in the Royal Infirmary from 11-12 commencing on second Tuesday in the term.

⁴ The students are divided into six sections, A, B, C, D, E and F for certain classes. Instruction in Clinical Pathology and Clinical Bacteriology will be arranged at suitable times throughout the year. Arrangements are to be made personally by students for Practical Midwifery.

⁵ The General Practice Teaching Unit is located at the Royal Dispensary, West Richmond Street, an Livingstone House, 39 Cowgate.

Fifth Year—Spring

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Obstetrics and Gynaecology Lecture	Obstetrics and Gynaecology Lecture	Ear, Nose and Throat Lecture	Obstetrics and Gynaecology Lecture	Obstetrics and Gynaecology Lecture
10-11	Surgery Tutorials	Surgery Lecture	Psych. Med. Lecture	Surgery Lecture	Surgery Lecture
11-1	Between 11 and 1 Sections attend as follows from Mon. to Sat.:— 11-12 { Mon., Wed., Fri. { C Clinical Ophthalmology { D Clinical Dermatology { Tues., Thurs., Sat. { C Clinical Dermatology { D Clinical Ophthalmology 12-1 { Mon., Wed., Fri. D Diseases of Ear, Nose and Throat (Clinical, including lecture { Tues., Wed., Thurs. C demonstrations) 11-1 Daily, except Sat. { E, F Clinical Surgery { A, B Clinical Medicine				
2-3	Psych. Med. Lecture	Psych. Med. Clin. D, E, F	Gen. Pract. Teaching A, B	Psych. Med. Lecture	2.15-3.45 Psych. Med. Clin.
3-4	3.30-5 Infect. Diseases E	Gen. Pract. Teaching A, B	do.	Gen. Pract. Teaching B	
4-5	Derm. Lect. C, D	do.	Applied Anatomy C, D, E, F	do.	
					Gen. Pract. Teaching A Derm. Lect. C, D

Final Professional Examination—Psychological Medicine

Fifth Year—Summer

DENTAL DISORDERS—An optional course of lectures is held from 10-11 on Saturdays during this term. (Anatomy Lecture Theatre.)

MEDICAL STATISTICS—A voluntary course of lectures may be held on Wednesdays from 10-11 a.m.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Public Health Lecture	Public Health Lecture	Public Health Tutorials	Public Health Lecture	Public Health Lecture
10-11	Surgery Tutorials	Surgery Lecture	do.	Surgery Lecture	Surgery Lecture
11-12	Between 11 and 1 Sections attend as follows from Mon. to Sat.:— 11-12 { Mon., Wed., Fri. { E Clinical Ophthalmology { F Clinical Dermatology { Tues., Thurs., Sat. { E Clinical Dermatology { F Clinical Ophthalmology 12-1 { Mon., Wed., Fri. F Diseases of Ear, Nose and Throat (Clinical, including lecture { Tues., Wed., Thurs. E demonstrations) 11-1 Daily, except Sat. { A, B Clinical Surgery { C, D Clinical Medicine				
2-3	Forensic Medicine Lecture	Forensic Medicine Lecture		Forensic Medicine Lecture	Forensic Medicine Lecture
3-4	3.30-5 Infect. Dis. A	3.15-5 Gen. Pract. Teaching C	For. Med. Demonstrations D	3.30-5 Infect. Dis. B	3.15-5 For. Med. Demonstrations B, F ¹
	3.15-5 Foren. Med. G. P. Teach. Demons. D			3.15-5 Foren. Med. G. P. Teach. Demons. C, D	3.15-5 Foren. Med. G. P. Teach. Demons. A, E ¹
4-5	do. do. Derm. Lect. E, F	do. Applied Anatomy A, B, D, E, F		do. do. Derm. Lect. E, F	do.

¹ Each section meets on alternate weeks.

Final Professional Examination—Forensic Medicine, and Public Health and Social Medicine.

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Sixth Year—Autumn

Students are divided into Section A, B, C

CLINICAL PATHOLOGY—Instruction will be arranged at suitable times throughout the year.

CLINICAL BACTERIOLOGY—Students will attend each term one meeting of the class at times to be arranged.

CLINICAL NEUROLOGY—Optional, Saturday 12-1 each term.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Medicine Symposia A, B, C ¹	Child Health Lecture A, B, C	9.30-10.30 Tuberc. Pract. B	Child Health Lecture A, B, C	Tuberculosis Lecture A, B, C
10-1	Between 10 and 1 Sections attend as follows:— A { Clinical Medicine 10-1 daily (lectures, Tues. and Fri. 12-1) B { Venereal Diseases Clinical 10-11, Mon. and Thurs. C { Clinical Surgery, 11-1 daily Obstetrics and Gynaecology Clinical 10-11.30 daily Child Health Clinical 11.30-1 daily				
2-3	2.30-3.30 Tuberc. Pract. B	Obst. & Gyn. Ante-natal Clinic C		Obst. & Gyn. Ante-natal Clinic C	2.30-3.30 Tuberc. Pract. B
3-4	Child Health Clin. C	do.		do.	do.
4-5	Obst. & Gyn. Lecture C	Obst. & Gyn. Lecture C		Applied Anat. Gen. A, B	Obst. & Gyn. Lecture C

Sixth Year—Spring

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Venereal Diseases Lecture A, B, C	9.30-10.30 Tuberculosis Pract. A	9.30-10.30 Tuberc. Pract. A	Applied Anat. (Child Health) A, B, C	9.30-10.30 Tuberculosis Pract. A
10-1	Between 10 and 1 Sections attend as follows:— A { Venereal Diseases Clinical 10-11, Mon. and Thurs. B { Clinical Surgery 11-1 daily C { Obstetrics and Gynaecology Clinical 10-11.30 daily Child Health Clinical 11.30-1 daily Clinical Medicine 10-1 daily (lectures Tues. and Fri. 12-1)				
2-3		Obst. & Gyn. Ante-natal Clinic. B		Obst. & Gyn. Ante-natal Clinic. B	Obst. & Gyn. Ante-natal Clinic. B
3-4	Child Health Clinic. B	do.	Child Health Clinic. B	do.	do.
4-5	Obst. & Gyn. Lecture B	Obst. & Gyn. Lecture B		Applied Anat. (General) Lecture A, C	Obst. & Gyn. Lecture B

On first eight Mondays of term.

M.B., Ch.B. Class Certificates

Sixth Year—Summer

GENERAL PRACTICE—A course of three lectures is given from 9-10 a.m. on certain Thursdays during this term.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Obst. & Gyn. Lecture A	Obst. & Gyn. Lecture A 9.30-10.30 Tuberc. Pract. C	9.30-10.30 Tuberc. Pract. C Child Health Clin. A		Obst. & Gyn. Lecture A 9.30-10.30 Tuberc. Pract. C
10-1	Between 10 and 1 Sections attend as follows:— A { Obstetrics and Gynaecology Clinical 10-11.30 daily Child Health Clinical 11.30-1 daily B { Clinical Medicine 10-11 daily (lectures Tues. and Fri. 12-1) C { Venereal Diseases Clinical 10-11 Mon. and Thurs. Clinical Surgery 11-1 daily				
2-3	Clinical Therapeutics A, B, C	Clinical Therapeutics A, B, C		Clinical Therapeutics A, B, C	Clinical Therapeutics A, B, C
3-4	Child Health Clin. A	Obst. & Gyn. Clin. A	Child Health Clin. A	Obst. & Gyn. Ante-natal Clin. A	Obst. & Gyn. Ante-natal Clin. A
4-5		do.		do. Applied Anatomy (General) B, C	do.

Final Professional Examination—Medicine, Surgery, Obstetrics and Gynæcology, and Child Life and Health.

Certificates of Attendance on Classes in the Faculty of Medicine (M.B., Ch.B. Curricula)

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner:—

Each Professor shall ascertain the presence of his pupils at least 26 times in a course of 6 months' duration, and 13 times in a course of 3 months' duration.

Those who have been absent on one-third or more of the occasions on which attendance has been ascertained, or have not duly performed the work of the class, including any examinations that may be held, shall not be entitled to any certificate.

The following is the form of certificate which must be adopted in all cases:—

"I certify that M..... attended my course of instruction on during the session; that was present on of the occasions on which attendance was ascertained; and that duly performed the work of the class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for 6 weeks or upwards in a course of 6 months, or for 3 weeks in a course of 3 months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty, for the decision of the Faculty.

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Whenever the student's cause for absence shall be admitted by the Professor or by the Faculty, the certificate shall bear that he "attended," and shall state the amount of the irregularity and the nature of the excuse.

Regulations governing Validity of Class Certificates, Admission to Classes, and Exclusions from further Attendance

Note.—In these regulations the phrase "first opportunity of appearance" at an examination refers to the first occasion of the examination following the course of study laid down in the curriculum.

First Year:—

(a) Class Certificates shall be valid for two opportunities of entering for the First Professional Examination within the academical year in which they are granted.

(b) A student who, at the end of the first year of study, has not passed in at least one subject of the First Professional Examination, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(c) A student who, at the end of the first year of study, has passed in at least one but not in all subjects of the First Professional Examination, shall be required to repeat in the following year the course(s) of instruction in the subject(s) in which he has failed.

(d) A student who has not completed the First Professional Examination at the end of one year additional to the regular period of study, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(e) In exceptional circumstances and with the approval of the Senatus, the Faculty of Medicine may waive these Regulations.

Second and Third Years:—

(a) Candidates must enter for the Second Professional Examination as a whole and must pass in the subjects of Anatomy (including Embryology) and Physiology (including Biochemistry) at the same time.

(b) Class Certificates shall normally be valid for three opportunities of entering for the Second Professional Examination.

(c) No student shall be allowed to take classes in the ninth ("transitional") term of study if he has failed to obtain a class certificate in either Anatomy (including Embryology) or Physiology (including Biochemistry), or, under any circumstances, to proceed to the fourth year if he has not passed the Second Professional Examination.

In the case of a student who fails in the Second Professional Examination in September-October, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat classes in the subject or subjects in which he has failed.

(d) In the case of a student who fails to obtain a class certificate in either Anatomy (including Embryology) or Physiology (including Biochemistry) at the end of the summer term of the second year or the spring term of the third year of the Medical curriculum, the Faculty shall have power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

(e) A student who has not passed the Second Professional Examination within thirteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

(f) Students proceeding to an Honours B.Sc. degree in Anatomy or Physiology will attend the classes of the summer term of the third year with the exception of Clinical Methods in Medicine and Surgery and Clinical Chemistry.

Fourth Year:—

(a) A candidate taking the Third Professional Examination for the first time must appear in both Pathology and Bacteriology and Materia Medica and Therapeutics at one examination.

(b) A candidate who attains a sufficiently high standard in one subject shall be credited with a pass in that subject and shall be required to appear for re-examination in the other subject only, when the standard for a pass shall be the ordinary pass mark.

(c) In the case of a candidate failing to pass the second subject by the end of the academical year, the Examination Board shall have power to recommend to the Faculty that the candidate be required to repeat the fourth year class in the subject in which he failed to pass, or be permitted to proceed to the fifth year of the curriculum.

(d) In no circumstances will permission to proceed to the fifth year of the curriculum be granted to a candidate who has failed in both subjects by the end of the academical year.

(e) Class Certificates shall be valid for four opportunities of entering for the Third Professional Examination.

(f) In the case of a student who fails to obtain a Class Certificate in the combined fourth year subjects, the Faculty shall have power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

(g) A student who fails to pass the Third Professional Examination within sixteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be readmitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

Fifth and Final Years:—

See p. 131, Sections XVI and XVII.

In the case of a student who fails to pass in the Final Professional Examination, in the subjects of Medicine, Surgery, Obstetrics and Gynæcology, after three appearances thereat or within thirteen months of the date of first appearance thereat, the Faculty shall have power to recommend to the Senatus that he be not allowed to re-enter for the Examination.

Honours in Professional Examinations

Passes with Distinction.—Candidates who have attained a sufficiently high standard at any of the Professional Examinations will be announced as having passed that examination "with distinction."

Honours at Graduation.—Candidates who have displayed special merit in the Professional Examinations over the whole course will be announced at the time of Graduation as having obtained the degree with honours. Candidates qualified for Honours, who have at another University passed an examination which exempts them from the First or Second Professional Examination will in the arranging of the total marks be granted a pass mark in respect of that examination.

Merit Certificates and Class Medals

Students who obtain 70 per cent. or more of the total marks available in class examinations for the courses of M.B., Ch.B., may be awarded a Certificate of Merit in place of a Class Certificate.

The Class Medal may be awarded to the most outstanding student in any of the courses for the degree of M.B., Ch.B. Such an award will not be made in years in which there is no student of sufficient merit.

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Opportunity for Hospital Practice

The total number of beds available for the clinical instruction of students of the University is 3598.

Royal Infirmary, Edinburgh.—1011 beds.

Royal Edinburgh Hospital for Sick Children.—120 beds, of which 50 are reserved for surgical cases.

Simpson Memorial Maternity Pavilion, Royal Infirmary.—128 beds available for clinical instruction.

Royal Victoria Hospital.—100 beds, the Tuberculosis Dispensary, the Farm Colony for Tuberculosis, Southfield Sanatorium Colony and City Hospital, available for clinical instruction to members of the class of Tuberculosis.

City Hospital (for fevers and infectious diseases).—779 beds.

Royal Edinburgh Hospital for Mental Disorders.—500 beds, available for clinical instruction of the class of Psychological Medicine.

Eastern General Hospital.—400 beds. **Northern General Hospital.**—260 beds. **Western General Hospital.**—300 beds. The medical, surgical and children's units of these Hospitals are available for clinical instruction throughout each term, and during the vacations. Accommodation is provided for resident students who act as clinical assistants, a few of whom can also obtain experience in practical obstetrics.

COURSES OF INSTRUCTION

THE STUDY OF MEDICINE

Lectures during the first fortnight of the autumn term on dates to be announced. 1. The Profession of Medicine. 2. The Rise and Development of the Edinburgh Medical School. 3. The Relation of Science to Medicine. 4. Medicine as an Instrument of Social Policy.

PRINCIPLES OF SCIENTIFIC METHOD

Lectures and demonstrations (as may be arranged) at times to be arranged. Aims and methods of science. Relation of science to medicine. The design of experiments. Elements of statistical methods, with practical exercises.

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; DR. NEIL CAMPBELL,
Reader; and Lecturers

Inorganic, Physical and Organic Chemistry

Lecture Course

Tues., Thurs., Fri. at 11.30 in autumn; Tues., Thurs. at 11.30 in spring; Mon., Tues., Thurs. at 2 in summer. The syllabus includes:—The fundamentals of general chemistry; the periodic classification; atomic structure; the electronic theory of valency; radioactivity; systematic chemistry of the elements. Chemical equilibria; properties of electrolytes; the pH notation and applications; oxidation-reduction systems; catalysis and adsorption; the colloidal state. The principles of organic chemistry; molecular structure; structural formulæ; radicals; isomerism; substitution and addition reactions; unsaturation; elements of stereo-chemistry. Chemistry of the main classes of aliphatic and aromatic compounds, and an introduction to the chemistry of the heterocyclic compounds.

Practical Course

Forty hours in each of the three terms. Instruction is given in simple laboratory technique; elementary physical chemistry; qualitative and quantitative inorganic chemistry; qualitative organic analysis; and the preparation of organic compounds.

Recommended books:—F. Prescott, *Intermediate Chemistry* (University Tutorial Press, 3rd ed., 1947); F. W. Goddard and E. J. F. James, *The Elements of Physical Chemistry* (Longmans); J. Read, *Introduction to Organic Chemistry* (Bell, 1948); J. B. Conant and H. H. Blatt, *Fundamentals of Organic Chemistry* (Macmillan, 1950); William Klyne, *Practical Chemistry for Medical Students* (E. and S. Livingstone, 1953).

Faculty of Medicine—Medicine

PHYSICS

**Dr. DAINTY, Reader; Dr. WILLIAMS, Dr. JOHNSTON
and Dr. MALCOLM, Lecturers**

Lecture Course

Mon., Tues., Thurs. and Fri. at 2 in autumn and spring.

This course, which presupposes some knowledge of physics, consists of mechanics, properties of matter, heat, sound, light, electricity, magnetism, X-rays and radioactivity. The aim of the course is to explain the fundamental principles of physics. Those principles are stressed which are of importance in understanding the processes occurring in living matter and illustrative examples from biology and medicine are given as far as possible. The physical instruments used in biological and medical research and practice are described and discussed.

Practical Work and Tutorials

Four hours each week in the autumn and spring terms.

The practical work consists of the carrying out of about twenty experiments. Tutorial classes are held each week; their aim is to help the student to understand physical principles by applying these principles to solve numerical and other problems.

BIOLOGY

PROFESSOR SWANN; Dr. HALE and Lecturers

Lecture Course

Mon. and Wed. at 11.30 a.m. in autumn and spring, and ten lectures in summer at 9.30 a.m., Mon. and Thurs.

The course aims at being an introduction to the Science of Life. It deals in an elementary way with the physics and chemistry of protoplasm, the origin of life, the structure and activities of micro-organisms and of plant and animal cells, the problems of growth, and development, the nature of inheritance, the organisation and functioning of a range of animals of increasing complexity, the differences between plants and animals, the idea of evolution, and nervous systems and behaviour.

Practical Course

The class meets in four sections, on all occasions from 9 to 11:—In autumn, A and B on Fri. and Sat.; C and D on Mon. and Tues. In spring, A and B on Mon and Tues.; C and D on Fri. and Sat.

Observations on living animals, dissections, introduction to use of microscope, microscopical studies and demonstrations designed to illustrate the subjects discussed in the lecture course.

ANATOMY

PROFESSOR ROMANES; Dr. INKSTER, Reader; Dr. KEMBALL and Dr. MUIR, Senior Lecturers; Mr. CRAIG, Dr. HELEN BARRETT, Dr. TAYLOR, Dr. ROBERTSON, Mr. PATERSON, Dr. KING, Dr. KERR, Dr. NORA CAMPBELL, Mr. ADAMS and Dr. PETERS, Lecturers.

Systematic Course

This course of lectures deals with the tissues and systems of organs of the human body, including their development and growth. Elementary human embryology is included, and special attention is directed to aspects of human anatomy which cannot readily be studied by ordinary methods in the dissecting-

Courses of Instruction (M.B., Ch.B.)

room. The lectures are illustrated by recent dissections; by wet and dry preparations; by osteological specimens; and by drawings, diagrams, radiographs and lantern slides. To assist the members of the lecture class, tutorial instruction is given in each of the terms.

Text-books:—Cunningham, *Text-book of Anatomy*; Le Gros Clark, *The Tissues of the Body*; Hamilton, Boyd and Mossman, *Human Embryology*.

Practical Anatomy

In the dissecting-rooms the student examines the characters and relations of the structures of the body for himself, aided by the Demonstrators under the superintendence of the Professor and the Reader, and revises the parts of the body previously dissected. Special tutorial demonstrations are given on all parts of the body. Examinations of both junior and senior students on dissected parts and on surface anatomy take place regularly. The dissecting-rooms are open from 9 to 5, and on Sat. from 9 to 12.

The order of dissection—Upper limb, thorax and abdomen, lower limb, head and neck, brain—is the same for all students. The systematic lectures deal with subjects illustrated by the parts under dissection at the time; and, so far as possible, the course in Physiology is correlated with both.

Text-book:—Cunningham, *Manual of Practical Anatomy*.

Regional Anatomy (Anatomical Demonstrations)

In this course of three terms the structures are displayed in recent dissections, radiographs and other preparations; and their connections, relations and surface anatomy in the different regions which they occupy in the human body are explained.

Text-books:—Jamieson, *Illustrations of Regional Anatomy*; Grant, *An Atlas of Anatomy*.

Microscopic Anatomy

Dr. KERR, Lecturer

This practical class is divided into sections, each section meeting for a period of two hours once a week throughout the first three terms of the Anatomy Course. So far as possible, the microscopic examination of the tissues and organs is correlated with the subjects treated in the systematic lectures.

Text-book:—Ham, *Histology*.

Neuro-Anatomy

This class meets in the fourth and fifth terms of the Anatomy Course, and is divided into sections. Each section meets for two periods of two hours each week; one period is devoted to dissection of the brain, the other to the microscopic study of the structure of the central nervous system.

Radiographic Anatomy

Dr. JOHN B. KING, Lecturer and Demonstrator

In connection with the Systematic and Regional Anatomy Courses, introductory lecture-demonstrations on the use of X-rays in the study of Anatomy are given to junior and to senior students. These are followed by demonstrations to small groups of students in the X-ray laboratory of the Department; in these demonstrations the form, position and movements of bones, joints and viscera are studied in the living subject. There is also provision for the regular study of recent radiographs by means of viewing-boxes in the dissecting-rooms and the surface anatomy rooms.

Text-book:—Appleton, Hamilton and Simon, *Surface and Radiological Anatomy*.

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Applied Anatomy

Mr. FARQUHARSON, Dr. BATTY, Mr. ROSS and Mr. LAWSON DICK, Assistants

Instruction consists chiefly of lectures and demonstrations of those points in Anatomy which have a special bearing on Medicine and Surgery. The classes are held each term separately for undergraduates of the fifth and final years (one day per week each—see time-tables) ; and the course as a whole is open to graduates.

A Special Course for fifth and final year students is held at times to be arranged. These classes are repeated each term according to the sections into which these years are divided for clinical work;—Anatomy of Child, Mr. Robarts; Ophthalmology, Mr. Jackson; Ear, Nose and Throat * * *

Advanced Course in Anatomy

Medical students who wish to study for the Combined Honours degree of B.Sc., M.B., Ch.B., are selected on their work for the Second Professional examination in March. Thereafter they follow a four-term course beginning in the summer term consisting of advanced practical work, lectures and tutorials (see Faculty of Science Programme, "Anatomy III").

Anatomical Museum

The museum was founded in 1800 by Professor Alexander Monro, *secundus*, who presented his own and his father's anatomical collections. Numerous additions have been made, particularly from the collections of Professor Alexander Monro, *tertius* (through his son, Sir David), Professor John Goodsir, the Henderson Trustees, and Principal Sir William Turner. The museum contains several thousands of specimens in illustration of Human Anatomy, normal and pathological, and Comparative Anatomy; it is specially rich in human crania from all parts of the world. The Professor of Anatomy, who is the Curator, would welcome further additions, especially of the osteology of the different races of men. The museum is at present closed for alterations.

Anatomical Research Laboratory

This laboratory is open daily throughout the year.

PHYSIOLOGY

PROFESSOR WHITTERIDGE; Dr. MARY PICKFORD and Dr. PASSMORE, Readers; Dr. DRAPER and Dr. WALSH, Senior Lecturers; Dr. DEWAR, Dr. WATT, Dr. IGGO, Dr. GAZE, Dr. HAGGIS, Dr. ROBERTS and Dr. BEGBIE, Lecturers.

Lectures

The course comprises 122 lectures on Physiology and 70 lectures on Biochemistry (see below) arranged so as to provide a consecutive account of the functional organisations of the body. As far as possible this course and the courses in Anatomy have been kept parallel. In the first term the application of the basic sciences to physiology is brought out in a survey of the systems of the body, then the fluids of the body, including blood, are considered in detail. The subjects treated thereafter are as follows:—in the second term, heart and circulation, respiration, the ductless glands; in the third term, reproduction, kidney, shock, digestion and liver, the autonomic nervous system; in the fourth term, temperature regulation, muscle and peripheral nerve, cord and medulla; in the fifth term, the central nervous system, the special senses, pædiatric physiology, and growing points in physiology. In addition, in the third, fourth and fifth terms there are lectures in Psychiatry.

Courses of Instruction (M.B., Ch.B.)

Practical Classes

Physiology: In sixty meetings exercises on human and animal Physiology are carried out illustrating and supplementing the lecture course.
Biochemistry: See below.

Demonstrations

PROFESSOR WHITTERIDGE and Lecturers, and Dr. PASSMORE,
Reader in Clinical Physiology

Demonstrations are arranged weekly and are illustrative of physiological phenomena and technique which cannot be included in the practical class. Every fortnight a hospital patient is shown to emphasise the importance of certain features of normal function.

Text-books:—In the first term students are expected to read the whole of a short introductory survey such as Newton's *Introduction to Physiology*. Most students will find a medium-sized text such as Winton and Bayliss, *Human Physiology*, or Bell, Davidson and Scarborough, *Textbook of Physiology and Biochemistry*, useful, but they may prefer to read the longer and more detailed texts such as Houssay, *Human Physiology*; Lovatt Evans, *Starling's Principles of Human Physiology*; Best and Taylor, *The Physiological Basis of General Practice*. It will be necessary in any case to use these books constantly for reference. Fulton's *Textbook of Physiology* (17th ed.), and Bard, *Medical Physiology* (10th ed.), may be used in the later part of the course.

Applied Physiology for Fifth and Sixth Year Students

This course comprises ten lecture-demonstrations designed to illustrate the underlying physiological mechanisms in disease.

Advanced Course in Physiology

Medical students who wish to study for the Combined Honours Degree of B.Sc., M.B., Ch.B., are selected on their work for the Second Professional examination in March. Thereafter they follow a four-term course beginning in the summer term consisting of advanced practical work, lectures and tutorials (see Faculty of Science Programme, "Physiology III").

Sharpey Schafer Memorial Lecture

The next Sharpey Schafer Memorial Lecture will be delivered on a date to be announced later.

Physiology Laboratories

The laboratories for research and practical work are open daily throughout the year under regulations which may be obtained from the Professor.

Physiology Library

Professor William Rutherford bequeathed his books and periodicals to the University for the Department of Physiology; and it was resolved to continue the periodicals and add books as opportunities occurred. In 1930 Professor Sir Edward Sharpey Schafer presented to the University the whole of his scientific library, containing several thousands of books and pamphlets, on the same conditions as Professor Rutherford. The library is not open to students but is used for reference and as a reading-room by those engaged in research. The books may be consulted by others on application to the Professor or to the Librarian in charge.

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BIOCHEMISTRY

(Chemistry in Relation to Medicine)

PROFESSOR FISHER; Dr. STEDMAN, Reader; Dr. GRANT, Dr. RAMSAY and Dr. OTTAWAY, Senior Lecturers; Dr. MINNIS, Dr. BOYD, Dr. CRUFT and Mr. RYLE, Lecturers.

Lecture Course

Seventy lectures in the combined Physiology-Biochemistry course for the Second Professional Examination are given throughout the five terms of that course as follows:

1st term, Monday, Tuesday and Wednesday at 9 a.m.

2nd and 3rd terms, Monday at 9 a.m.

4th and 5th terms, Tuesday at 12 noon.

The syllabus includes:—

1. Elementary chemistry of carbohydrates, lipids, amino acids and proteins, and heterocyclic compounds of biological significance. 2. Enzymes. 3. Nutritional requirements; vitamins. 4. Blood: composition and function; plasma proteins; blood coagulation; biochemistry of hæmoglobin; biochemistry of respiration. 5. Neutrality regulation; biochemistry of renal function. 6. Biological oxidations. 7. Digestion and absorption. 8. Intermediate metabolism of carbohydrates, lipids, proteins and other compounds of biochemical importance.

Practical Course

The practical class meets in sections in the second and third terms on Thurs. and Fri., from 2-5 p.m.

The object of the course is to present a selection of experiments which allows the student to test the validity of certain biochemical concepts encountered in the lecture course. The experiments involve qualitative and quantitative observations on biological material, the analytical procedures being similar to those encountered subsequently in clinical chemistry. The course consists of studies on enzymes, vitamins, oxygen and carbon dioxide transport by the blood; hæmoglobin; blood coagulation; protein, fat, carbohydrate and mineral metabolism; liver and kidney function tests and studies on electrolyte balance.

The class is divided into small groups for practical instruction, and opportunities are provided for each group to meet members of the staff for informal discussions.

For other courses given in the Biochemistry Department, see Faculty of Science programme.

Romanes Lecture

The next Romanes Lecture will be delivered on a date to be announced later.

PATHOLOGY

PROFESSOR MONTGOMERY; **Dr. R. F. OGILVIE**, Reader in Pathology; **Dr. AGNES MACGREGOR**, Reader in Pathology of Children; **Dr. J. DAVIDSON** and **Dr. WILLIAMS**, Senior Lecturers; **Dr. A. F. J. MALONEY**, Senior Lecturer in Neuro-Pathology; **Dr. MARY K. MACDONALD**, **Dr. BAIN**, **Dr. J. D. MCGREGOR**, **Dr. J. S. BARRETT**, **Dr. ALLAN**, **Dr. COULSON**, **Dr. GARDNER**, **Dr. STUART**, **Dr. HUNT**, **Dr. SHIVAS**, **Dr. NAGLE**, **Dr. BLACK**, and **Dr. SMITH**, Lecturers.

The systematic course, which extends over four terms and includes General and Special Pathology, is integrated with the teaching of systematic Medicine and Bacteriology.

In the Transitional Term attention is devoted to the principles of the subject and to the study of basic reactive and neoplastic processes. During the three terms of the fourth year of study the instruction is systematic and as far as possible co-ordinated with the systematic lectures in Medicine.

A collection of specimens has been prepared and so arranged that the students are able to study the effects of disease and follow out the complete series of pathological changes which are observed in the various organs of the body in individual cases. For each case there has been prepared a report giving full details of the clinical history, post-mortem examination and microscopical investigation of the morbid tissues.

Practical Pathology

The class is intended to illustrate the lectures, though the microscopic work is done mainly in the autumn. Each section meets for two hours two days a week in the afternoon. The work of this class consists of the study of Morbid Histology. Microscopes and reagents are supplied. Each student may be required to make a deposit to cover the cost of slides and the loan of a special set of slides. Part of this deposit is returned at the end of the class if the loan set is returned intact.

Practical Morbid Anatomy and Applied Pathology

During the three terms of the fourth year of study, a course of instruction is given in Morbid Anatomy and Applied Pathology in the Pathological Departments of the University and Royal Infirmary. Autopsy examinations are performed almost daily in the Royal Infirmary of Edinburgh. Students are advised to attend these examinations as frequently as possible; attendance at a prescribed number of examinations is obligatory. Students are required to attend this course before appearing for the Professional examination in Pathology.

Text-books:—Payling Wright, *Introduction to Pathology* (3rd ed.); Muir, *Text-book of Pathology* (7th ed.); Robbins, *Textbook of Pathology*; Ogilvie, *Pathological Histology* (4th ed.).

Pathology for Fifth and Sixth Year Students

During the fifth and final years the study of Pathology will be continued in connection with clinical cases and will take the form mainly of clinical-pathological conferences.

Senior Pathology

This course is intended for those taking Pathology as an Honours subject for the B.Sc. in Pure Science. It is mainly practical and consists (a) in a study

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of pathological technique; (b) in the working out in detail of selected material; (c) in advanced work on subjects to be selected.

Pathological Laboratory

This is open daily for pathological research under the superintendence of the Professor, to whom application should be made.

BACTERIOLOGY

PROFESSOR CRUICKSHANK; and Lecturers

Bacteriology

PROFESSOR CRUICKSHANK; Dr. SWAIN, Reader; Dr. DUGUID, Senior Lecturer; Dr. GILLIES, Dr. CONSTABLE, Dr. NINA TULLOCH, Dr. JOYCE COGHAN, Dr. DURIE, Dr. TONKIN, Dr. COLLEE, Dr. ROBERTSON, Dr. MCWILLIAM, Dr. SLEIGH Dr. BOISSARD and Dr. RENWICK, Lecturers.

This course commences in the third term of the third year of medical study, in which an introduction is given to the main part of the course which is held in the fourth year. The introductory part of the course deals for the most part with the fundamental and biological aspects of Bacteriology as apart from the direct applications of the subject to medical practice and science. The lectures include a discussion of the general principles of immunity. The later part of the course, in the fourth year, is co-ordinated with the coincident teaching of Pathology, Pharmacology, Medicine and Therapeutics. A series of lectures is given in both parts of the course, and the class is divided into sections for practical work in the third term of the third year and the first two terms of the fourth year, each section meeting once a week during these three terms. The lectures in the fourth year deal also with the more important medical applications of Immunology, including immunisation against various infective diseases, e.g. smallpox, diphtheria, enteric fever, etc.

Text-books:—Mackie and McCartney, *Handbook of Practical Bacteriology* (9th Ed.); Whitby and Hynes, *Medical Bacteriology*; Bedson *et. al. Virus and Rickettsial Diseases* (2nd Ed.).

Senior Bacteriology

Dr. SWAIN, Reader; Dr. BOWIE and Dr. GOULD, Senior Lecturers

This course, in the autumn term at times to be arranged, is intended for senior students of Medicine, for graduates and for those preparing for the diploma in Tropical Medicine and Hygiene. The course is designed to provide a more advanced and specialised training in the principles and technique of bacteriology than that available in the ordinary undergraduate courses and arrangements are made to meet the special requirements of different members of the class.

Lecture-Demonstrations in Clinical Bacteriology and Immunology for Fifth and Sixth Year Students

Dr. BOWIE (Bacteriologist, R.I.E.), Senior Lecturer

In each term of the fifth and sixth years a lecture-demonstration will be given on clinical applications of Bacteriology and Immunology, the students attending in sections on days and times to be arranged.

Bacteriological and Immunological Research Laboratories

These include class-laboratories, preparation rooms and a number of laboratories for research in the various branches of bacteriology and microbiology.

PHARMACOLOGY AND THERAPEUTICS

Pharmacology

**PROFESSOR PERRY; Dr. VOGT, Reader; Dr. ADAM, Senior Lecturer;
Drs. BARLOW and CRAWFORD, and Mr. STEPHENSON, Lecturers**

Therapeutics

**PROFESSOR DUNLOP; Dr. ROBSON, Senior Lecturer;
Dr. DUNCAN and Dr. LAMBIE, Lecturers**

The combined course in Pharmacology and Therapeutics comprises:—1 Lectures; 2, a practical class; 3, tutorials.

The lectures in Pharmacology and Therapeutics are conducted during the four terms jointly by the Professors in these subjects. The lectures on Pharmacology are devoted chiefly to the description of the manner in which the functions of the body in health or disease can be modified by therapeutic measures. Attention is confined to a selection of the more important drugs. The lectures on Therapeutics are chiefly concerned with the more practical and clinical aspects of treatment.

The practical classes are held in autumn and spring. The student is required to examine and report on the pharmacological effects of those drugs which have been dealt with in the lectures. He is also instructed in the principles of prescribing and in the conditions of practice under the National Health Service. Guidance is given regarding the critical assessment of the therapeutic efficacy of drugs in man, and the student is shown examples of the various pharmaceutical preparations, official and proprietary, used in Therapeutics. Instruction and practice are given in prescribing for selected diseases.

Senior Courses in Pharmacology and Therapeutics

Pharmacology

Medical students who wish to study for the combined Honours degree of B.Sc., M.B., Ch.B. with Honours in Pharmacology are selected on their work for the Second and Third Professional Examinations. Thereafter they follow a one year course consisting of advanced practical work and tutorial classes. (See Faculty of Science Programme—Pharmacology II.)

Therapeutics

A course of about twenty-four lectures on Clinical Therapeutics for senior students is held during the summer of the sixth year.

Text-books:—Clark, *Applied Pharmacology*; Gaddum, *Pharmacology*; Dunlop, Davidson, and Alstead, *Text-book of Medical Treatment*; Macgregor and Kinnear, *Practical Prescribing*.

Materia Medica and Therapeutics Laboratories

The Department of Pharmacology contains accommodation for a number of research students, and the laboratories are open daily throughout the year for research purposes. The clinical laboratories of the Department of Therapeutics in the Royal Infirmary are also available for research workers. Students who desire admission as research students must make application to the Professor. Papers reporting experiments conducted in the laboratory must be submitted to the Professor before publication.

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SURGERY

The course of instruction in Surgery comprises (1) systematic lectures and discussion groups, and (2) attendance at hospital practice.

Systematic Course in General Surgery

PROFESSOR BRUCE; Mr. SINCLAIR, Senior Lecturer; Mr. SMITH, Lecturer; Mr. FALCONER, Mr. CAMERON and Mr. MACPHERSON, Part-time Lecturers; Mr. BAND, Reader in Urological Surgery; Mr. MASON BROWN, Reader in Pædiatric Surgery; Mr. WALLACE, Reader in Plastic Surgery; Mr. LOGAN, Reader in Thoracic Surgery.

The course of instruction comprises in the fifth year lectures, discussion groups or tutorials daily in the autumn and, except Wednesday, in the spring and summer. The principles of general surgery and of regional surgery other than orthopædic surgery and surgical neurology will be considered. Instruction in the latter subjects will be given by the professors of orthopædic surgery and surgical neurology.

Text-books:—Patey, *Introduction to Surgery*; Handfield-Jones and Porritt, *Essentials of Modern Surgery*; Bailey and Love, *A Short Practice of Surgery*; Christopher, *Textbook of Surgery*; Allen, Harkins, Moyer and Rhoads, *Surgery: Principles and Practice*; Blackburn and Lawrie, *Textbook of Surgery*; Illingworth, *Textbook of Surgical Treatment*.

Clinical Surgery

PROFESSOR BRUCE; Mr. STEWART, Mr. ADAMSON, PROFESSOR WOODRUFF, Mr. CAMERON, Surgeons-in-charge to the Royal Infirmary; Mr. FARQUHARSON, Mr. JEFFREY, Mr. WILSON, Mr. PORTER, Mr. ROSS, Mr. MCINTOSH, Mr. MACPHERSON and Mr. SINCLAIR, Surgeons to the Royal Infirmary; Mr. FALCONER and Mr. SMALL, Surgeons to the Western General Hospital; Mr. BARRON and Mr. GILMOUR, Surgeons to Leith Hospital; Mr. LOGAN, Surgeon-in-charge, Thoracic Unit, Eastern General Hospital; Mr. WADE, Mr. McCORMACK and Mr. WALBAUM, Surgeons to the Thoracic Unit, Eastern General Hospital; Mr. BAND, Surgeon-in-charge, Urological Surgery Unit, Western General Hospital; Mr. TULLOCH, Surgeon to the Urological Surgery Unit, Western General Hospital; Mr. WALLACE, Surgeon-in-charge, Plastic Surgery Unit, Bangour Hospital; Mr. BUCHAN and Mr. BATCHELOR, Surgeons to the Plastic Surgery Unit, Bangour Hospital.

The course in Clinical Surgery is conducted in the surgical wards and out-patient departments at the Royal Infirmary, the Western General Hospital and Leith Hospital, and in the special clinics at other hospitals.

Students are conveyed to and from the Western General Hospital, Leith Hospital, and the special clinics in buses provided by the University, and a limited number may reside within the hospital for prescribed periods including the summer vacation. Application for such student residencies should be addressed to the Dean of the Faculty of Medicine.

Nine months' attendance in Clinical Surgery is required. A certificate of having acted as surgical dresser or clerk for a period of at least six months is required for graduation and students will be required to spend some time in attendance at the Surgical Out-Patient Department of the Royal Infirmary. Those who cannot be accommodated in the Surgical Out-Patient Department during the term will be required to attend at the Out-Patient Department in the vacation.

Tutorial instruction is given by the Clinical Tutors attached to the wards. Students act as clerks in the wards. Details as to hours of instruction and arrangement of clinical work are posted at the entrance to the various surgical wards in the Royal Infirmary.

Courses of Instruction (M.B., Ch.B.)

Surgical Neurology

PROFESSOR NORMAN DOTT; Mr. GILLINGHAM, Senior Lecturer,
and Staff

The course of instruction consists of a series of lectures in the fifth year incorporated in the systematic course in General Surgery; and of clinical instruction at the Department of Surgical Neurology, Ward 20, Royal Infirmary, and Bangour Hospital, in the fifth year. Detailed arrangements will be notified to those affected.

Text-books:—Monrad-Krohn, *Clinical Examination of the Nervous System* (9th ed.); Rowbotham, *Acute Injuries of the Head* (3rd ed.); Oliver, *Essentials of Neurosurgery* (1st ed.).

Orthopædic Surgery

PROFESSOR JAMES; Mr. LAWSON DICK, Mr. SAVILI,
Mr. MITCHELL and Mr. CHALMERS, Lecturers

The course of instruction consists of twenty-four lectures on Orthopædic Surgery, including a series on fractures. These are incorporated in the systematic course in General Surgery. Clinical instruction is given to students in the summer term of the fourth year, and in the final year, at the Royal Infirmary and the Princess Margaret Rose Hospital.

Text-books:—Wiles, *Essentials of Orthopædics*; McMurray, *A Practice of Orthopædic Surgery*; Mercer, *Orthopædic Surgery*; Watson Jones, *Fractures and Dislocations*; Thomson and Miles, *Manual of Surgery*; Beesley and Johnston, *A Manual of Surgical Anatomy*.

Surgical Science

PROFESSOR WOODRUFF; Dr. DELORME and Dr. MICHIE, Senior Lecturers,
Mr. NOLAN and Dr. HOWARD, Lecturers

The department maintains laboratories and operating theatres for investigational work on surgical problems. Facilities can be made available, by arrangement, to members of other surgical departments and to selected post-graduate students in any branch of surgery who desire to devote the whole or part of their time for a limited period to work on a research project.

Anæsthetics

Dr. JOHN GILLIES, Reader

The Lecturer gives a course of ten lectures on the principles of Anæsthesia, during the summer term of the fourth year. In this term, and in the autumn and spring terms of the following year, practical instruction in the administration of anæsthetics is given by the Supervisors of Anæsthetics in each surgical charge.

MEDICINE

PROFESSOR DONALD; Dr. CARD and Dr. GIRDWOOD, Readers; Dr. DUTHIE, Dr. FRENCH, Dr. MEIKLEJOHN, Dr. SIMPSON, Dr. STRONG, Dr. TURNER and Dr. WRIGHT, Senior Lecturers; Dr. TAYLOR, Dr. HARRIS and Dr. RICHMOND, Lecturers; Dr. INNES, Dr. MACLEOD, Dr. MARQUIS, Dr. MATTHEWS, Dr. SINCLAIR, Dr. SIRCUS and Dr. STANTON, Part-time Lecturers.

The class in the Principles and Practice of Medicine forms part of the conjoint course of instruction in the fourth year of study, and is concurrent with the courses of Pathology, Bacteriology, Pharmacology and Therapeutics.

The lectures and demonstrations given during the three terms deal with the ætiology, manifestation, diagnosis, prognosis, and treatment of (a) general diseases; and (b) diseases of the different systems and organs of the body.

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Demonstrations illustrating the conjoint teaching in the course of the fourth year are available throughout the session.

Text-books:—Davidson, *The Principles and Practice of Medicine*; Coneybeare, *Textbook of Medicine*; Dunlop, Davidson and Alstead, *Textbook of Medical Treatment*.

Medical Laboratories

The Department includes laboratories that have been reconstructed and equipped by Sir William Dunn's Trustees and the Rockefeller Foundation. Graduates who wish to undertake research in experimental medicine are afforded every facility in these laboratories.

CLINICAL MEDICINE

PROFESSOR DUNLOP, PROFESSOR DONALD, Dr. GILCHRIST (Reader in Clinical Cardiology), Dr. TODD,¹ Dr. SLATER, Dr. CAMERON, and Dr. MURRAY LYON, Physicians-in-charge to the Royal Infirmary; Dr. LAMB, Dr. HAMILTON, Dr. HALLIDAY CROOM, Dr. KEIMAN ROBERTSON, Dr. BATTY, Dr. INNES and Dr. MATTHEW, Physicians to the Royal Infirmary; Dr. GIRDWOOD, Dr. MACGREGOR, Associate Physicians.

In the summer term of the third year the class is divided into sections which receive instruction in Clinical Methods in Medicine.

The subsequent courses in each of the three sessions consist of clinical lectures and of clinical teaching in the wards of the Royal Infirmary (fourth year—autumn and spring 11-1; fifth year¹ autumn, spring or summer 11-1; sixth year—autumn, spring or summer 10-1). The clinical lectures are delivered twice a week in the two clinical medicine theatres to senior and junior students separately. Bedside instruction is given to senior and junior students separately. Clinics are held daily in the Out-Patient Department of the Royal Infirmary. Tutors attached to each physician give tutorial instruction in practical methods to students beginning Clinical Medicine, and assist them in case-taking. Students are required to act as clinical clerks in the wards. Instruction is given in clinical chemistry and microscopy by Dr. C. P. Stewart and staff of the department of Clinical Chemistry. Attendance at wards and lectures is compulsory. The posts of House Physicians under the several physicians are open to young graduates and provide extended opportunities of post-graduate education.

Instruction in Clinical Medicine is also given at hospitals of the Northern Group. Students are conveyed to and from the Hospitals in buses provided by the University. A limited number of students may reside within certain of the Hospitals for prescribed periods (including the summer vacation). Applications for such student-residences should be addressed to the Dean of the Faculty of Medicine.

Clinical Laboratory of the Royal Infirmary

The laboratory, instituted in the Royal Infirmary with a grant from the Rockefeller Foundation, is available for research.

CLINICAL CHEMISTRY

Dr. C. P. STEWART, Reader; Dr. TOMPSETT, Dr. EASSON and Dr. FRAZER, Senior Lecturers; Dr. CROMBIE, Dr. KAPPELLER-ADLER, Dr. JOCEYLN and Dr. ALBERT-RECHT, Lecturers.

Course I

This course forms part of the co-ordinated programme of training for the Third M.B. examination. It begins in the "transitional term" the summer

¹ In the Northern Group of Hospitals.

Courses of Instruction (M.B., Ch.B.)

term of the third undergraduate year) and extends through the autumn term of the fourth year. During both terms two hours per week are devoted to laboratory work, and during the summer term a lecture is given each week. The lectures deal with the applications of chemistry to medical and surgical problems. The practical work, which includes simple hæmatological techniques, covers the simpler chemical methods used as aids to diagnosis and prognosis.

Text-book :—Stewart and Dunlop, *Clinical Chemistry in Practical Medicine*.

Course II

A course of lectures is given on Mon. and Thurs. at 2 p.m. during the autumn term of the fifth year. This deals with the use and interpretation of clinical chemical methods and with the place of biochemistry in the progress of medical science.

Post-graduate and Research Facilities

Arrangements can be made for tuition in chemical methods for medical graduates who propose to engage in research. A limited number of research students, working in co-operation with the staff of the Department, can be accommodated in the laboratories of the Department of Clinical Chemistry (Clinical Laboratory of the Royal Infirmary).

OBSTETRICS AND GYNÆCOLOGY¹

PROFESSOR KELLAR; Dr. MATTHEW, Reader; Dr. ANDERSON, Dr. KENNEDY, Dr. IRVINE, Dr. DUNLOP, Dr. RACHEL MACKAY, Dr. MYERS-COUGH, Lecturers; Dr. MACGREGOR, Lecturer in Gynæcological Endocrinology; Dr. SCANDRETT, Lecturer in Clinical Biochemistry; Dr. B. M. HOBSON, Senior Lecturer, Pregnancy Diagnosis Laboratory.

Obstetrics and Gynæcology

The course of instruction comprises lectures on :—1. Obstetrics :—i. anatomy and physiology of the female organs of reproduction; ii. physiology of pregnancy; iii. physiology of parturition; iv. physiology of the puerperal state; v. pathology of pregnancy; vi. pathology of parturition; vii. pathology of the puerperal state. 2. Gynæcology :—i. Methods of diagnosis; ii. diseases of the female pelvic organs; iii. non-operative and operative treatment.

Lectures for Senior Students

During the term in which students are attending obstetrical and gynæcological clinics, the following lectures are held :—1. Obstetrics.—A weekly lecture on a selected obstetrical subject is given. 2. Gynæcology :—A weekly lecture on a selected gynæcological subject is given. 3. Gynæcological Endocrinology :—A short course of lectures is given during the term. 4. Gynæcological Pathology Demonstration :—This is given each week, with histological preparations demonstrated by the microprojector. 5. Practical Obstetrics :—Instruction is given in the application of forceps and other operative obstetrical procedures.

Text-books :—Obstetrics—Johnstone and Kellar, *Text-book of Midwifery*; Moir, *Munro Kerr's Operative Obstetrics*; Browne, *Ante-natal and Post-natal Care*. Gynæcology—Young, *A Textbook of Gynæcology*; Haultain and Kennedy, *A Practical Handbook of Midwifery and Gynæcology*. Obstetrics and Gynæcology—Baird and others, *A Combined Text-book of Obstetrics and Gynæcology*.

¹ The Department is housed at 60 George Square.

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Clinical Obstetrics

PROFESSOR KELLAR, Dr. STURROCK, Dr. KENNEDY, Obstetricians-in-charge to the Royal Infirmary; Dr. LISTON, Dr. MATTHEW, Dr. CALLAM, Dr. IRVINE, Dr. MYERSCOUGH and Dr. PEARSON, Obstetricians to the Royal Infirmary; PROFESSOR ELLIS, Dr. NICHOLSON and Dr. DOUGLAS, Pædiatricians-in-charge to the Royal Infirmary; Dr. LISTON, Dr. MATTHEW, Dr. MACGREGOR, Dr. ANDERSON, Dr. MYERSCOUGH, and Dr. PEARSON, Obstetricians to the Northern Group of Hospitals; Dr. FORFAR, Pædiatrician-in-charge to the Northern Group of Hospitals.

Midwifery is studied clinically in the Simpson Memorial Maternity Pavilion Royal Infirmary, and at the Obstetrical Unit of the Northern Group of Hospitals, Clinics and practical instruction are given by the Professor and the other obstetricians and the Professor of Child Life and Health and the other pædiatricians. Each course extends over one term. In addition to attendance at clinics and demonstrations, students are expected to follow all the work of the hospital, including the Ante-natal and Post-natal Departments. Each must also reside for a period of not less than six weeks in the University Residence for students of Obstetrics,¹ in order that he may obtain the advantage of practical instruction on abnormal cases admitted during the night. Tutorial instruction is also given. Students must submit records of normal deliveries personally conducted prior to their period of residence in the Hostel.

Clinical Gynæcology

PROFESSOR KELLAR, Dr. STURROCK, Dr. KENNEDY, Gynæcologists-in-charge to the Royal Infirmary; Dr. LISTON, Dr. MATTHEW, Dr. CALLAM, Dr. IRVINE, Dr. MYERSCOUGH and Dr. PEARSON, Gynæcologists to the Royal Infirmary; Dr. LISTON, Dr. MATTHEW, Dr. MACGREGOR, Dr. ANDERSON, Dr. MYERSCOUGH, and Dr. PEARSON, Gynæcologists to the Northern Group of Hospitals.

Courses are held during the three terms in Wards 34, 35 and 36 of the Royal Infirmary and the Gynæcological Ward of the Western General Hospital. Each course consists of clinical instruction, including the major and minor gynæcological operations, as well as the critical exposition and discussion of cases. Tutorial instruction is given.

Obstetrical and Gynæcological Museum

The museum contains the obstetrical instruments of Professors Sir J. Y. and Sir A. R. Simpson, obstetrical specimens and models, and a collection made by Dr. Freeland Barbour and Professors B. P. Watson and R. W. Johnstone, illustrating gynæcological pathology, drawings, micrographs, etc.

CHILD LIFE AND HEALTH

PROFESSOR ELLIS, Dr. NICHOLSON, Physicians-in-charge, Royal Hospital for Sick Children; Dr. FORFAR, Pædiatrician-in-charge, Western General Hospital; Dr. DOTT, Dr. MILLER, Dr. DOUGLAS and Dr. FARQUHAR, Physicians, Royal Hospital for Sick Children; Dr. FARQUHAR, Dr. FORFAR and Dr. TAIT, Senior Lecturers; Dr. BOOG WATSON, Lecturer in Preventive Pædiatrics; Dr. THOMSON, Dr. MARGARET MUIRHEAD, Dr. INGRAM and Dr. M. WAKEFIELD, Lecturers; Mrs. A. V. MORGA: Assistant.

Surgical Pædiatrics:—Mr. MASON BROWN, Mr. WALLACE, Surgeons-in-charge, Royal Hospital for Sick Children; Mr. ROBERTS, Miss MACKAY, Surgeons, Royal Hospital for Sick Children.

Child Life and Health is studied in the final year and includes one term of clinical instruction, and twenty systematic lectures given in the autumn term.

¹ Situated at 21, 23 and 25 Chalmers Street.

During the period of clinical instruction, lectures are given on normal development and feeding of infants and older children and the preventive aspects of pædiatrics, and demonstrations are held in infant welfare, school medical, and child guidance clinics.

Instruction in clinical pædiatrics is given daily in the Royal Hospital for Sick Children and Western General Hospital to sections of the final year students in each of the three terms. It consists of clinical lectures, ward rounds, and out-patient attendance, and deals with surgical and medical aspects of disease in childhood. Instruction in the care and diseases of the newborn is given in the Simpson Memorial Maternity Pavilion during the same term that students study clinical obstetrics and attend the follow-up clinic of infants born in the hospital. Demonstrations are given in the University Department at 17 Hatton Place, which includes a museum of pædiatric pathology.

Text-books:—Ellis, *Disease in Infancy and Childhood*; Ellis and others, *Child Health and Development*.

PSYCHOLOGICAL MEDICINE AND PSYCHOLOGY

PROFESSOR KENNEDY and PROFESSOR DREVER; Dr. MUNRO, Dr. FISH, Senior Lecturers; Dr. AFFLECK, Senior Lecturer in Mental Hygiene; Dr. BAILEY, Physician and Lecturer in Mental Deficiency; Dr. ELIZABETH ROBERTSON, Dr. HARROWES, Dr. MACRAE, Dr. BETTY MAGILL, Dr. ROSS, Dr. HEGARTY and Dr. BELL, Physicians and Honorary Lecturers; Dr. FORREST, Dr. FAWCETT and Dr. OSWALD, Lecturers; Mr. DREWERY, Lecturer in Psychology.

PRE-CLINICAL PERIOD

Second and Third Years

A course consisting of four demonstrations and eight lectures is given by the Professors of Psychology and Psychological Medicine during the Anatomy and Physiology course in the second and third years. The ground covered includes the approach to the study of human behaviour, human differences, psychometric methods and the elements of normal psychology.

Eight lectures are given in the summer term after the second Professional Examination, dealing with the psychological approach to the patient, aims and methods of psychological medicine, problems of mental health and the part played by mental mechanisms in physical disease.

Recommended books:—Cobb, *Emotions and Clinical Medicine*; Knight, *Modern Introduction to Psychology*; Cameron, *Psychology of the Behaviour Disorders*; Hart, *The Psychology of Insanity*; Stafford-Clark, *Psychiatry To-day*.

CLINICAL YEARS SYSTEMATIC COURSES

Fourth Year

(a) One lecture in the Systematic Medicine Course is given in each term on psychiatric aspects of physical illness. In each term also one of the clinical lectures is given on a psychiatric subject.

(b) Bedside teaching on psychiatric and psychosomatic disorders is given in the professorial wards of the R.I.E. by arrangement with the Department of Medicine. Students may be allotted patients in the Department's beds and write up patients in whom psychological factors are involved.

(c) An elective course in the psychological aspects of case-taking and in taking psychiatric histories is given at the Jordanburn Nerve Hospital on Saturday mornings during the autumn and spring terms. Up to 70 students can be accepted in each term. The meetings consist of a lecture followed on alternate Saturdays by individual case-taking and discussion of the cases with a tutor in groups of five. There are also films and case-demonstrations.

Students wishing to take part in either term should submit their applications in writing to the Professor of Psychological Medicine, 2 George Square, Edinburgh 8, by 15th June.

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Fifth Year

The systematic course is given on Monday, Wednesday and Thursday and the clinical course on Friday during the spring term. The ground covered includes the psychoses, the psychoneuroses, mental defect, child psychiatry, social and medico-legal psychiatry. Students are expected to attend the Psychiatric Out-patient Department at the Royal Infirmary on Tuesday afternoons during this course.

The Professional Examination in Psychological Medicine is held at the end of the Systematic Course in the Spring Term. It includes one written paper, with a clinical and an oral examination.

Sixth Year

Two lectures are included in the systematic course in Therapeutics and one clinical lecture is given in each term.

Recommended books:—Curran and Partridge, *Psychological Medicine*; Skottowe, *Clinical Psychiatry*; Dawson, *Aids to Psychiatry*. Reference books:—Mayer Gross, Slater and Roth, *Clinical Psychiatry*; Sargant and Slater, *Physical Methods of Treatment in Psychiatry*; Henderson, Gillespie and Batchelor, *Text-book of Psychiatry*; Ross, *The Common Neuroses*.

CLINICAL TEACHING

Beside teaching on psychiatric patients in the Royal Infirmary is integrated with the general medical teaching in the wards. Out-patient teaching is available on Monday, Tuesday and Wednesday afternoons and may be attended at any time by students who have taken the fourth year elective course or have commenced the fifth year psychiatry lectures.

NEUROLOGY

Dr. J. K. SLATER, Lecturer

A series of clinical demonstrations will be given in the Royal Infirmary on Sat. at 12 during each term of the final year. The course is open to graduates and senior students.

PUBLIC HEALTH AND SOCIAL MEDICINE

Course I (Third Year)

PROFESSOR BROTHERSTON; and Lecturers

This course of 20 meetings forming an introduction to medical sociology is given in the third year on Tues. and Fri. at 10 a.m. in summer.

This course, which constitutes an introduction to the course of Public Health and Social Medicine offered in the fifth year, deals with the following topics: Society; State; Family; The Medical and Welfare Services; their evolutionary history and purpose; the distinction between individual and group medicine; the methods of group medicine; measurements of the public health; sub-groups and categories within the population and their medico-social needs; nature and nurture.

Course II (Fifth Year)

PROFESSOR BROTHERSTON; and Lecturers

Daily, except Sat., at 9 in summer of fifth year.

This course, which is a continuation and extension of the course offered in the third year, deals with the following topics: environmental factors which affect health and their control; epidemiology and vital statistics; the development, structure and functions of health and welfare services.

Books recommended:—Davies, *Modern Public Health for Medical Students*; H.M.S.O. Report of the Committee of Enquiry into the Cost of the National

Courses of Instruction (M.B., Ch.B.)

Health Service (Guillebaud Report); The Registrar-General for Scotland Annual Report for 1954; Currie and Mearns, *Hygiene Manual of Public Health*; Passmore and Swanston, *Industrial Health*; J. N. Morris, *The Uses of Epidemiology*.

GENERAL PRACTICE TEACHING UNIT

Director.—Dr. RICHARD SCOTT, Reader; Dr. D. W. MACLEAN, Dr. D. H. McVIE, Dr. J. WALKER, Dr. I. S. McROBBIE and JANE E. PATERSON, Lecturers; Dr. D. S. COWNIE, Dr. LOWELL LAMONT, Dr. S. LIPETZ, Dr. A. C. McLAREN, Dr. J. E. MARGARET MUNRO, Dr. I. H. STOKOE and Dr. W. P. THOMSON, part-time Lecturers.

The General Practice Teaching Unit consists of two general practices situated one at Livingstone House, 39 Cowgate, and the other at the Royal Dispensary, 34 West Richmond Street.

The Unit offers a course of practical instruction in general practice, which is repeated three times in each academical session. All fifth-year students are required to attend this course. Each student is required to attend on two occasions per week for one academic term, and is attached either to a full-time or a part-time general practitioner member of the staff of the Unit.

Limited facilities for post-graduate instruction are also available. The Unit also offers certain opportunities for practical training to social science students. Application should be made to the Director of the Unit at Livingstone House, 39 Cowgate.

GENERAL PRACTICE

Dr. RICHARD SCOTT, Reader

A course of three lectures on General Practice is given in the summer term of the final year. The subject-matter of these lectures includes the historical development of General Practice, a review of the conditions under which General Practice is conducted in this country to-day, the nature of General Practice, the opportunities which exist in General Practice, and finally the immediate problems presenting to the recent graduate who wishes to make General Practice his career.

FORENSIC MEDICINE

PROFESSOR DOUGLAS KERR; Dr. FIDDES and Mr. STREET, Lecturers

This course, given in summer, will embrace, so far as possible, the following subjects:—1. Methods of judicial investigation; procedure in Courts of Justice; medical evidence. 2. Death in its medico-legal relations; certification of death; the signs of death and post-mortem changes; the medico-legal examination of the dead body. 3. Sudden death; its causation and medico-legal importance. 4. Identity of living and of the dead. 5. Death from violence and unnatural causes and the consideration of various questions connected therewith. 6. Medico-legal relations of pregnancy and delivery; abortion; infanticide; rape. 7. The examination of blood and seminal stains; medico-legal blood-grouping. 8. Medical ethics. 9. Legal responsibilities and duties of medical men. 10. Insanity in its medico-legal relations; criminal responsibility; lunacy certificates; testamentary capacity. 11. Toxicology; consideration of the general evidences of poisoning; the symptoms and morbid appearances produced, the means of detection, and the treatment of poisoning. These lectures will be supplemented by practical demonstrations. Every facility will be afforded to those who wish to obtain practical insight into any branch of the subject or to undertake research work.

Text-book:—Douglas Kerr, *Forensic Medicine*.

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TUBERCULOSIS

**PROFESSOR CROFTON; Dr. HORNE, Dr. ROSS
and Dr. WILLIAMSON, Lecturers**

Ordinary Course

The course deals generally with tuberculosis and to a lesser extent with other respiratory diseases. It includes a survey of the ætiology, epidemiology, diagnosis and treatment of tuberculosis with some lectures on other chest diseases. There are ten lectures and ten practical classes. The practical classes are conducted at various chest hospitals, under the direction of the Professor. Students attend the class in their final year.

Courses for Special Diplomas

Courses of instruction are held in connection with the curriculum for the diplomas in Public Health and in Tropical Medicine and Hygiene.

DENTAL DISORDERS

PROFESSOR BOYES

A course of six lectures on Dental Disorders will be given on Saturday at 10 a.m. during the summer term of the fifth year.

DISEASES OF THE EYE

PROFESSOR G. I. SCOTT and Dr. J. R. PATERSON, Surgeons-in-charge to the Department of Ophthalmology of the Royal Infirmary; Dr. J. MACASKILL and Dr. C. R. S. JACKSON, Surgeons to the Department of Ophthalmology of the Royal Infirmary; Dr. B. A. BEMBRIDGE (Ocular Pathology) and Dr. N. L. STOKOE (Lecturers in the University Department).

The course consists of systematic lectures, clinical meetings and tutorials during the fifth year.

The systematic lectures are given on Wednesdays at 9 a.m. and Fridays at 3 p.m. during the autumn term, and include lectures on applied anatomy and physiology and lectures on ophthalmology in relation to general medicine.

For clinical meetings and tutorials the students are divided into sections, instruction being given at the Royal Infirmary during the three terms of the fifth year.

Text-books:—Neame and Williamson Noble, *A Handbook of Ophthalmology*; May and Worth, *Manual of Diseases of the Eye* (11th ed.).

DISEASES OF THE EAR, NOSE AND THROAT

Dr. SIMSON HALL and Dr. J. P. STEWART, Surgeons-in-charge to the Royal Infirmary Ear, Nose and Throat Department; Dr. A. B. SMITH, Dr. R. B. LUMSDEN, Dr. I. M. FARQUHARSON and Dr. G. D. McDOWALL, Surgeons to the Royal Infirmary Ear, Nose and Throat Department.

Courses of instruction consisting of not less than thirty clinical demonstrations and lecture demonstrations are given at 12 in each term of the fifth year. The students are divided into two sections. Combined lecture demonstrations, with use of films whenever possible, are given on Wednesdays. On the other days students are instructed in clinical examination of patients. The patients are brought before the students who are taught to examine them. Thereafter diagnosis and treatment of each case is discussed. Tutorial instruction in anatomy, the use of instruments and the methods of examination are given by the Clinical Tutors. Students must provide themselves with head mirrors before coming to the class. At the end of each term there is an examination which, though written, is essentially clinical.

Text-books:—Logan Turner, *Diseases of the Throat, Ear and Nose*; Simson Hall, *Diseases of Nose, Throat and Ear*.

DERMATOLOGY

PROFESSOR G. H. PERCIVAL and Dr. G. A. G. PETERKIN, Physicians-in-charge to the Royal Infirmary, Department for Diseases of the Skin; and Dr. P. W. HANNAY, Physician and Lecturer; Dr. MACMILLAN, Honorary Lecturer.

A course of instruction is given each term of the fifth year, and includes twenty systematic lectures and thirty clinical meetings. The clinical course comprises ward visits, the examination of out-patients, practical demonstration of methods of treatment, and instruction in laboratory technique.

Facilities are provided for post-graduate study and research work on dermatological problems. A large collection of histo-pathological material is available for study.

Text-book:—G. H. Percival, *Introduction to Dermatology*.

INFECTIOUS DISEASES

Dr. JOE, Lecturer

The course, which is repeated each term, consists of demonstrations at the City Hospital. Students in their fifth year are taken in groups, each group attending once a week, either Mon. or Thurs., at 3.30 throughout the term. Practical details in the diagnosis, management and prophylaxis of the common infectious diseases are demonstrated, the main part of the time being given to clinical observations at the bedsides of patients.

Text-book:—Joe, *The Acute Infectious Fevers*.

VENEREAL DISEASES

Dr. ROBERT LEES, Lecturer

The courses, each of twenty-five meetings, consists of:—Systematic lectures on Mon. at 9 in the spring; and clinical lectures and demonstrations on Mon. and Thurs. at 10, by sections, in autumn, spring and summer. The courses deal with venereal diseases, more particularly in their practical aspects. Special attention is directed to the clinical side of the work, and to the methods and technique of diagnosis and treatment. Further opportunities are given for practical work. Attendance at the class, which students attend in their final year, is necessary for graduation.

Text-books:—Dunlop, Davidson and McNee, *Textbook of Medical Treatment*, 6th ed., Section on Venereal Diseases.

HISTORY OF MEDICINE

Special lectures will be given on dates to be announced.

DIPLOMA COURSES

Application for Admission

Forms of application for admission to Diploma courses may be obtained from the Dean's Office, New Buildings, Teviot Place, on request.

Applications for admission should be lodged with the Dean of the Faculty of Medicine on or before 30th April of the year in which the applicant desires admission. It is expected that applicants will be informed of the decision on their applications by June or early July.

Applicants from abroad are advised to await a decision on their application before making definite arrangements to travel.

On acceptance candidates shall be required to pay a deposit of £5 on account of the tuition fees payable on enrolment. This sum shall be forfeited in the case of withdrawal later than 31st August.

Applicants are reminded that the holding of any Diploma course is conditional on a sufficient number of candidates being enrolled.

DIPLOMAS IN MEDICAL RADIODIAGNOSIS AND IN MEDICAL RADIOTHERAPY (D.M.R.D. Univ. Edin. and D.M.R.T. Univ. Edin.)

Application for Admission. (See above)

1. Candidates for the diploma must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or qualifications of some other licensing body registrable with the General Medical Council in Great Britain, or of such other universities or medical schools as are recognised for the purpose by the University Court.¹

2. Before commencing the course for the diploma a candidate must have had at least two years' post-graduate experience, including (a) a resident surgical appointment in hospital for at least six months, and (b) general clinical experience extending over a period of at least eighteen months.

It is desirable that candidates should obtain post-graduate experience in Morbid Anatomy and Morbid Histology before starting the course of study.

3. The course of study begins in October and extends over a period of two years' full-time study for the Diploma in Radiodiagnosis, and two years' full-time study for the Diploma in Radiotherapy.

4. Candidates shall not be deemed to have attended a course of instruction for the purpose of the diploma who do not present certificates bearing not only that they have regularly attended the course during the specified number of hours, but also that they have performed the work thereof in a satisfactory manner.

5. Candidates must be matriculated for the years in which they attend the course and appear for examination.

6. Diploma in Medical Radiodiagnosis:—

(a) A written, practical and oral examination in Physics will be held at the end of the spring term (*i.e.* in March) of the first year. Supplementary examinations, open to candidates who have failed in the previous examination, will be held in June and September.

(b) A written practical and oral (First) examination in Radiodiagnosis will be held at the end of the first year in September. A supplementary examination, open to candidates who have failed in the Radiodiagnosis examination in the previous September, or who have passed the examination in Physics in the previous September, will be held in March.

¹ M'Gill University (M.D., C.M.), and Patna University (M.B., B.S.) are recognised.

Diplomas in Medical Radiodiagnosis and Radiotherapy

- (c) A written, practical and oral (Final) examination in Radiodiagnosis will be held at the end of the second year in September. A supplementary examination, open to candidates who have failed in the Final examination in the previous September, or who have passed the First Radiodiagnosis examination in the previous September, will be held in March.
7. Diploma in Medical Radiotherapy:—
- (a) A written, practical and oral examination in Physics will be held at the end of the spring term (*i.e.* in March) of the first year. Supplementary examinations, open to candidates who have failed in the previous examination, will be held in June and September.
- (b) A written, practical and oral (First) examination in Radiotherapy will be held at the end of the first year in September. A supplementary examination, open to candidates who have failed in the Radiotherapy examination in the previous September, or who have passed the examination in Physics in the previous September, will be held in March.
- (c) A written, practical and oral (Final) examination in Radiotherapy will be held at the end of the second year in September. A supplementary examination, open to candidates who have failed in the Final examination in the previous September, or who have passed the First Radiotherapy examination in the previous September, will be held in March.
8. A candidate shall not be allowed to enter for the First examination in Radiodiagnosis or Radiotherapy before he has passed the examination in Physics, nor shall he be allowed to enter for the Final examination in Radiodiagnosis or Radiotherapy before he has passed the respective First examinations in these subjects.

COURSE OF INSTRUCTION IN RADIODIAGNOSIS

During the first nine months the candidate will attend lectures and receive a course of practical instruction. During the remaining fifteen months he will take part in the work of the Department or in other approved hospitals so as to extend his practical training.

During the first nine months (three terms) the course of instruction is as follows:—

Physics.—Structure of the atom, the elementary principles of electricity; thermionic emission; the production and properties of X-rays; gamma radiation in natural and artificially produced radioactive substances; the absorption of ionising radiations; the measurement of quantity and quality; photographic action and fluorescence; radiation hazards and protection. The principles of construction of apparatus used in radiodiagnosis.

Radiographic Anatomy.

Morbid Anatomy.—A systematic review of morbid anatomy and correlation of radiographic and morbid anatomy findings.

Technique of Radiography.—Practical instruction in radiographic technique including fluoroscopy and the use of contrast media.

Film Interpretation.—Lectures, demonstrations and practical experience in the interpretation of the radiographic appearances of the normal and of the various pathological conditions which may be demonstrated by X-rays.

Books recommended:—Starling, *Electricity and Magnetism*; Weyl and Warren, *Radiologic Physics*; Cunningham, *Textbook of Anatomy*; Rhinehart, *Roentgenographic Technique*; Illingworth and Dick, *Surgical Pathology*; Golden,

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Diagnostic Roentgenology; Shanks, Kerley and Twining, *Textbook of X-ray Diagnosis*; McLaren, *Modern Trends in Diagnostic Radiology*.

COURSE OF INSTRUCTION IN RADIOTHERAPY

During the first nine months the candidate will attend lectures and receive a course of practical instruction. During the remaining fifteen months he will take part in the work of the Department so as to extend his practical training.

During the first nine months (three terms) the course of instruction is as follows:—

Physics.—Structure of the atom; the elementary principles of electricity; thermionic emission; the production and properties of X-rays; gamma radiation in natural and artificially produced radioactive substances; the absorption of ionising radiations; the measurement of quantity and quality; photographic action and fluorescence; radiation hazards and protection.

The principles of construction of apparatus used in radiotherapy; the production of radioactive isotopes and the handling of radioactive sources in tracer and therapeutic amounts; dose distributions in X-ray and gamma ray therapy.

Radiobiology.—Mode of action of ionising radiations in living tissue; factors leading to cell death; differential effect in tissues and tumours; effects of whole body irradiation; gene damage; radiation hazards.

Morbid Anatomy.—The morbid anatomy and histology of tumours and of non-neoplastic diseases treated by radiotherapy; mode of spread of malignant tumours.

Film Interpretation.—With special reference to the appearances of malignant tumours and of non-malignant conditions treated by radiotherapy.

Clinical Instruction.—Lectures and clinical instruction in the recognition of disease and in the assessment of its extent; clinical aspect of the effects produced by radiotherapy.

Treatment.—Systematic and practical instruction in the use of X-rays and gamma ray sources and in their particular application in individual sites; treatment by hormones and chemotherapeutic agents.

Statistical Analysis.—The principles of statistical investigation of the results obtained in surgery and radiotherapy with some detailed instruction in the application of the simpler statistical methods.

Books recommended:—Starling, *Electricity and Magnetism*; Johns, *Physics and Radiation Therapy*; Wilson, *Radium Therapy*; Cunningham, *Textbook of Anatomy*; Willis, *The Spread of Tumours in the Human Body*; Stanford Cade, *Malignant Disease and its Treatment by Radium*; Bradford Hill, *Principles of Medical Statistics*; Lea, *Actions of Radiations on Living Cells*; Ralston Paterson, *Radiotherapy*; *British Practice of Radiotherapy* (Butterworth & Co.); Articles in Journals.

DIPLOMA IN PSYCHIATRY (Dip. Psych. Univ. Edin.)

Application for Admission. (See p. 166)

**General Outline of the Examinations and Courses
offered by the University**

I. The Courses for the Diploma in Psychiatry are linked to a training-scheme for Psychiatrists approved by the S.E. Scotland Regional Hospital Board within which paid appointments can be obtained which allow the candidates to satisfy the regulations. It is not necessary, however, for candidates for the examination to hold posts within this and similar schemes provided that they can attend the necessary courses and produce evidence of having the required clinical experience. Honorary posts allowing of clinical experience under supervision are available within the Hospital Board's Mental Health Services to accepted candidates holding qualifications registrable in the United Kingdom (and in certain instances to non-registrable medical graduates from other countries).

II. The Examination consists of Part I, Part II (a) and Part II (b). Part II may not be taken until Part I has been passed but Sections (a) and (b) of Part II may be taken in any order.

III. Conditions necessary for admission to Part I examination.

- (1) Two years must have elapsed since graduation or provisional registration.
- (2) One year's experience of Medicine, Pædiatrics or Neurology, including a six-months' appointment in general medicine.
- (3) Previous acceptance by the University as a candidate. (Acceptance as a Trainee Psychiatrist by the S.E. Scotland Regional Hospital Board and by certain other authorities with which the University has made prior arrangements implies acceptance by the University).

Note.—A one year part-time course is given at the University, but is not obligatory.

IV. Conditions necessary for admission to Part II Examination (sections (a) and (b)):

Section (a)

1. Candidates must have held whole-time appointments in Psychological Medicine in recognised hospitals or clinics for two years. (The equivalent of this amount of whole-time service in part-time appointments may be accepted provided that the other conditions are fulfilled). These appointments must include:—

- (a) A six months' resident appointment in a recognised hospital for psychiatric disorders, including psychoses.
- (b) Attendance for at least 50 sessions at a recognised clinic, hospital or home for psychiatric disorders in children.
- (c) Attendance for at least 72 sessions at a recognised Out-patient clinic at which the treatment of Psychoneuroses is undertaken.
- (d) Three months' experience at a recognised hospital for Mental Defectives.
- (e) Tenure of a three months' appointment in Neurology *or* three months' whole time work at a recognised clinic for Neurology *or* attendance at a three months' course in Neurology given by the University, or its equivalent given over a period of not more than six months.

2. Candidates must attend either a three months' full-time or a six-months' half-time course in Psychological Medicine in the University.

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Section (b)

1. Candidates must be eligible to take part II (a) and must also in addition have:—

(a) Six months' approved whole-time practice in one of the following:—

General Psychiatry.

Neurology.

Mental Deficiency.

Child Psychiatry.

Psychotherapy.

Forensic Psychiatry (including Prison Service).

(b) Submit 10 case histories with commentary in the subject of the appointment held under (a).

V. Candidates wishing to take the English Conjoint Board (or equivalent) examinations which permit the obtaining of a Diploma considerably sooner after qualification may, if accepted as students, take the shorter Part I Course and the Part II course for the Dip. Psych. Certain practical work and the Part I part-time course, are, however, reserved exclusively for candidates accepted for the Dip. Psych.

Regulations and Syllabus

VI. The Examination shall consist of two parts, each of which must be passed as a whole, namely:—

Part I

1. Anatomy and Physiology of the Nervous System.

Written examination (1 paper of 3 hours in each subject).

Oral examination.

2. Psychology and Related Subjects.

Written examination (2 papers of 3 hours).

Oral examination.

Part II (a)

1. Neurology.

Written examination (1 paper of 3 hours).

Clinical examination.

2. Psychological Medicine.

Written examination (2 papers of 3 hours).

Clinical examination.

Oral examination.

Part II (b)

1. The candidate will be required to present 10 full case histories of patients that have been under his care, including a full record of investigation and treatment, together with a commentary on each, the commentaries not to exceed one thousand words in length. The case histories shall be drawn from one of the fields in paragraph IV Section (b) and this must be chosen with the approval of the Professor of Psychological Medicine. In lieu of the 10 case reports the candidate may submit a report and commentary including case histories of a series of clinical observations or of a supervised therapeutic trial, carried out on a significant number of cases which may exceed the minimum of 10.

(The case histories or the report on the clinical trial must be submitted not less than six weeks before the date of the oral examination.)

2. The candidate will be required to submit to an oral examination in the field of study from which his cases are selected or on the report of the therapeutic trial if this is deemed necessary by the examiners after assessment of the reports.

VII. Candidates must be matriculated before taking the Part I examination.

VIII. The Board of the Faculty of Medicine is empowered to decide whether a course pursued or experience gained by a candidate may be accepted for the purposes of these regulations, but shall not grant exception from any Part of the examination.

IX. All Parts of the examination shall be held in March and in September.

Syllabus

The following will give some idea of the scope of the various subjects and the full courses of instruction and guidance as to how the necessary knowledge may be acquired.

Part I

Anatomy and Physiology of the Nervous System

1. The macroscopic and microscopic anatomy of the brain and spinal cord. Their covering and vascular supply and the general lines of their development.

2. The anatomy and physiology of the autonomic nervous system, central and peripheral.

3. The applied anatomy, histology and physiology of the endocrine organs and their relationship with one another and with the nervous system.

4. The physical basis of mental activities and the physical concomitants of mental states.

5. The physiological functioning of the nervous system, its levels of integration and the means of investigating their action.

6. Methods of examining the nervous system and of investigating and recording its activity.

7. Conditioned and unconditioned reflexes.

8. The chemistry of the nervous system and cerebrospinal fluid.

9. Metabolism, nutrition and vitamins in relation to nervous and mental function.

10. Theories of nervous action and of its relation to consciousness and mental activity in general.

Psychology and Related Subjects:

A. Psychology:

1. The psychology of cognitive and conative processes. The psychology and physiology of the emotions.

2. The elements of experimental psychology including animal psychology.

3. The principal schools of psychology, their tenets and influence on contemporary thought and clinical practice.

4. Theories of unconscious mental processes and their application to clinical and social problems.

5. The nature of the psychophysical constitution. Personality, intellect and temperament and their development.

6. The psychopathology of abnormal mental states.

7. The psychological development of children.

8. Psychometric techniques as applied in tests of intelligence, temperament, and personality.

9. The application of psychological methods to problems of human relations, of groups and of communities, and in industry.

B. Related Subjects:

1. The general principles of genetics and their application to problems of nervous and mental disease.

2. An outline knowledge of the principal schools of philosophy having a bearing on mental pathology. The Relation of Brain to Mind.

3. The methods and objects of scientific enquiry as applied to psychology and human relations.

4. Elementary statistics as applied to psychology and to clinical psychiatry.

Part II (a)

Neurology:

1. The applied anatomy and physiology of the nervous system.

2. The examination of the nervous system together with special methods of investigation of its function.

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3. The pathology of diseases of the nervous system.
4. The diagnosis and treatment of diseases of the nervous system.
5. The psychological effects of disorder of the nervous system.

Psychological Medicine:

1. An outline knowledge of the history of psychological medicine. Its relation to general medicine.
2. The diagnosis, pathology and treatment of disorders of thought and behaviour in children and adults.
3. Psychopathology and the methods of psychotherapy.
4. The psychology of physical disease and the ætiology and treatment of psychosomatic disorders.
5. Mental and constitutional defects, their ætiology and pathology. The intellectual, physical and social characteristics of mental defectives and their care and management.
6. The mental development of children and its disorders. The investigation and treatment of disordered behaviour in children.
7. The psychological aspects of crime and criminals. The medico-legal relations of mental deficiency and of unsoundness of mind.
8. The subjects included in the syllabus of Part I (Psychology) as applied to psychological medicine.

DIPLOMA IN PUBLIC HEALTH (D.P.H. Univ. Edin.)

Regulations

Application for Admission. (See p. 166)

1. Candidates for the Diploma must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding Degrees or qualifications of some other licensing body registrable with the General Medical Council in Great Britain or of such other Universities or Medical Schools as are recognised for the purpose by the University Court.

2. A candidate is eligible to enter upon study for the Diploma in Public Health at any time after the end of one year following full registration with the General Medical Council.

3. The curriculum for the Diploma shall extend over a period of an academic year of whole-time study.¹

4. The curriculum shall include instruction in (a) The history of Public Health and Social Welfare; the evolution of Central and Local Authorities; and the evolution of the law in relation to Public Health Administration. (b) The existing functions of Central and Local Authorities and voluntary organisations, and the nature and objects of the Public Health and Medical Services which they administer; the agencies for the relief of poverty and the promotion of Social Welfare. (c) The law relating to Public Health Administration. Organisation and management of medical departments and institutions. (d) Sanitation, water supplies, housing, Town and Country Planning and the application of scientific principles thereto. Interpretation of building plans. (e) The influence on physical and mental health of environment, including housing and occupation, economic circumstances and nutrition and personal hygiene. (f) The influence of heredity on health. (g) Physiology, biochemistry, food and nutrition in relation to the public health. (h) Bacteriology, parasitology and medical entomology as applied to epidemiology. (i) Community aspects of disease. Administrative measures in relation to communicable and other diseases. (j) The nature and sources of information bearing on the health of the people; and the statistical analysis and numerical presentation of such data. The preparation of memoranda and scientific articles containing statistical data. (k) The Mental Health Services; social consequences of mental illness; mental deficiency. (l) Methods of educating the public as to the promotion and maintenance of health. (m) After-care and rehabilitation. (n) International Health Organisations.

5. Admission to the examination is contingent upon the candidate having complied with the following conditions:—

(a) Completion of the prescribed courses for the Course.

(b) Possession of a certificate testifying that the candidate has regularly attended the courses and duly performed the work thereof.

(c) Presentation of a Day-Book in which the candidate has made regular and satisfactory entries relating to the subjects in which practical instruction has been given during the course, together with brief and critical observations on the lessons to be derived therefrom.

(d) Submission of a dissertation on one of a series of topics relating to Preventive and Social Medicine to be approved by the Faculty of Medicine. A candidate whose dissertation is not approved shall not be permitted to proceed with the examination.

6. The examinations shall include written and oral examinations in the subjects of the curriculum (see para. 4).

The course of study, which commences in October, includes the following:

¹ In special circumstances a candidate may be permitted to interrupt the course of study at the end of the autumn term, and to complete the course during a subsequent academic year.

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PUBLIC HEALTH AND SOCIAL ADMINISTRATION, LAW AND METHODS

Public Health Administration and Law

PROFESSOR BROTHERSTON, and Lecturers; Mr. McLARTY;
Dr. SEILER and Lecturers

The history of public health and medical services, and their present organisation and functions. The evolution of central and local authorities and their present duties. The administration, organisation and management of public health and medical departments and institutions. International health organisations and their functions.

The law relating to public health administration and its evolution.

Methods of environmental control; the principles of sanitation; housing policy and the influence of housing on health; occupational hygiene and the influence of occupation on health.

Health Education and its methods.

Practical Public Health

Dr. SEILER and Staff

The practical work includes regular attendance at the City Public Health Department. Instruction is given in general administration, budgeting and staffing, and preparation of annual reports and health statistics.

Outside visits and demonstrations are arranged on sewage disposal, water purification, smoke abatement, inspection of nuisances, housing (including slum clearance and new construction), noise nuisances, factories and shops inspection, port health, supervision of lodging-houses, vermin control, supervision of vans, tents, sheds, etc., food control, disinfection and infectious disease control.

Visits of instruction and observation illustrate the work of the midwife, the district nurse, the home help service and the children's department. Opportunities are provided to see the general work of the health visitor and child welfare centres and day and residential nurseries are visited. The School Health Service enables the candidates to see school medical inspections, a variety of clinics and the arrangements made for the care and supervision of physically and mentally handicapped pupils.

The care of old people and the handicapped is studied. Special sessions are devoted to mental health, health education and the Health Centre at Sighthill.

Social Security

Miss BROWN, Senior Lecturer; Dr. GREGOR, Lecturer

A study of poverty in the 20th century and the methods adopted by society for its alleviation; history of social security legislation; the existing services, statutory and voluntary, for the relief of poverty and the promotion of individual and family well-being; ten lectures in the autumn term and contribution to the Seminar on Social Welfare Services in the summer term.

Social and Industrial Psychology

Mr. MCKENZIE, Lecturer

An introduction to the social and psychological factors in human behaviour, especially in the occupational and industrial fields. Diagnosis of attitudes, assessment of personality and of cognitive abilities for occupational guidance and selection, impact of the psychological and social environments, all with a general orientation to problems of occupational adjustment.

Town and Country Planning

PROFESSOR MATTHEW

The course deals briefly with the functions of Town and Country Planning. It includes an outline of the history of planning and the legislation relating to it. Planning schemes are discussed and the following aspects are dealt with:—The residential area, the town centre, central redevelopment for residential use, the development of housing, rural planning and blighted areas. Attention is also paid to the interpretation of building plans.

**MEDICAL STATISTICS, DEMOGRAPHY AND
HUMAN GENETICS**

Medical Statistics and Demography

**Dr. DOUGLAS, Reader; and Mr. SKLAROFF
and Miss CARTWRIGHT, Lecturers**

The course deals with the social and biological characteristics of populations, with the description and classification of the social, economic and environmental circumstances of communities and social groups, and with the data related to measurement of the health and medical care of a community.

Instruction in Medical Statistics is concerned with scientific method as applied to health problems. It deals with the fundamental principles of investigations, the statistical treatment of epidemiological and public health problems, and the interpretation and validity of conclusions. The lectures and practical work cover the collection, handling and elementary analysis of raw data, the uses and limitations of numerical descriptions of natality, mortality and morbidity, problems of sampling, techniques of analysis of measurements, tabulation and graphical presentation of findings, and tests necessary to draw justified conclusions or to make predictions.

Human Genetics

Dr. GORDON, Senior Lecturer

The course aims to examine (i) the inter-relation between heredity and environment (nature and nurture) and (ii) the population aspects of genetic differences so as to indicate the influence of heredity and health.

The course covers variation—the genetic basis and the environmental basis; application and limitations of the twin method; empirical hereditary prognosis—familial incidence of disorders; human pedigrees, including incomplete penetrance; blood groups; population genetics—gene frequency, mutation and selection; the genetic implications of medical advance.

MICROBIOLOGY AND EPIDEMIOLOGY

Bacteriology

**PROFESSOR CRUICKSHANK; Dr. SWAIN, Reader;
Dr. GILLIES, Lecturer**

In the autumn term the course comprises lectures and demonstrations on the nature and control of infection, together with instruction in immunology. In the spring and summer terms the course proceeds on similar lines to a comprehensive study of bacteriology and immunology as applied to Epidemiology, Social Medicine and Public Health Practice.

Entomology and Parasitology

PROFESSOR SWANN; Dr. KETTLE and Dr. RAYSKI, Lecturers

Helminthology. A course of five lectures is given, followed by demonstrations covering the outlines of morphology and biology of helminths occurring in man.

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Entomology. This course deals with the relevance of arthropod bionomics to epidemiology and disease control. Demonstrations of medically important arthropods are given.

Infectious Diseases

Dr. JOE, Lecturer

Candidates meet twice weekly for a period of two hours during the spring term. Approximately one hour of each period is devoted to formal instruction in the acute infectious diseases with special reference to epidemiology and public health aspects. The subjects of infectious hospital construction, administration and management are also dealt with. The remainder of the time is spent in clinical work in the hospital.

APPLIED PHYSIOLOGY

Dr. PASSMORE, Reader

Causes of nutritional disorders, nutritional requirements; food values; assessment of nutritional status; prevention of nutritional diseases; physiological regulation of body temperature; effects of adverse climate; methods of heating, cooling and ventilation; vitiated atmospheres, clothing; effects of lighting and noise; industrial fatigue.

SOCIAL ASPECTS OF DISEASE

**PROFESSORS CROFTON, KENNEDY and SCOTT; Dr. BAILEY,
Dr. LEES and Dr. MANSBRIDGE**

Certain health problems are considered in their public health aspects: Dental Diseases, Diseases of the Eye, Mental Defect, Mental Disease, Tuberculosis and Venereal Disease are dealt with during the course.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE
(D.T.M. & H. Univ. Edin.)

Application for Admission. See p. 166

Regulations

1. Candidates for the diploma must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or qualifications registrable with the General Medical Council in Great Britain, or of such other universities or medical schools as are recognised for the purpose by the University Court.

2. The curriculum for the diploma consists of two parts and is given from October to March.

Candidates who have passed the examination at the end of the first term may interrupt their course and take the second part at a later date.

3. It shall be competent for the Faculty of Medicine to exempt any candidate from attending the course in any two of the subjects in Part I of the diploma if these have been previously taken at a recognised School of Tropical Medicine.

4. Candidates shall not be deemed to have attended a course of instruction unless their attendance has been regular and their work has been performed in a satisfactory manner.

5. The examinations shall be written, oral and practical.

6. Candidates for examination must be matriculated for the year.

7. Candidates, on the first occasion of presenting themselves for examination in either part, shall appear for all the subjects of that part, and any candidate who fails to pass the entire examination in either part within a period of thirteen months after a first appearance shall be required to reappear for all the subjects.

8. If any candidate fails to pass in any part or parts of the examination, it shall be competent for the Faculty of Medicine to require the candidate again to attend any course or courses of instruction before being readmitted to examination.

9. It shall be competent for the Faculty of Medicine to refer a candidate for further examination in part of either Part I or Part II of the diploma examination.

The courses are as follows:—

¹ The University is included in the list of institutions whose courses of instruction in Tropical Medicine may be taken by officers of the Colonial Medical Service on first appointment or during study-leave.

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Part I—Autumn Term ¹

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-10	Entomology and Parasitology (K.B.)	Entomology and Parasitology (K.B.)	Diseases of Tropical Climates (E.G.H.)	9-11.30 Entomology and Parasitology (K.B.)	Diseases of Tropical Climates (K.B.)	
10-12					10.30-1 Entomology and Parasitology (K.B.)	
12-1				Diseases of Tropical Climates (S.H.)		
2-5	2-3 Diseases of Tropical Climates (U.N.B.) 3.15-5 Virology (U.N.B.)	Bacteriology (U.N.B.)	Bacteriology (U.N.B.)	Bacteriology (U.N.B.)	Entomology and Parasitology (K.B.)	
Part II—Spring Term ¹						
9-10	Diseases of Tropical Climates (S.H.)	Diseases of Tropical Climates (S.H.)	Diseases of Tropical Climates (S.H.)	Tropical Hygiene (U.I.)		Tuberculosis (R.V.D.)
10-11					Diseases of Tropical Climates (E.G.H.)	
11-12	Tropical Hygiene (U.I.)	Elementary Statistics (U.I.)	Tropical Hygiene (U.I.)	11.15-12.15 Venereal Diseases (R.I.)		
12-1		Tropical Hygiene (U.I.)				
2-4	2-3 Tropical Hygiene (U.I.)	Applied Physiology (U.I.)		Applied Physiology (U.I.)	2-3 Tropical Hygiene (U.I.)	

K.B. = The King's Buildings, West Mains Road.
E.G.H. = Eastern General Hospital, Seafield Street.
R.I. = Royal Infirmary.

S.H. = Surgeons' Hall, 18 Nicolson Street.
U.N.B. = University New Buildings, Teviot Place.
U.I. = Usher Institute, Warrender Park Road.
R.V.D. = Royal Victoria Dispensary, Spittal Street.

Opening dates of classes:—

AUTUMN TERM—		Introductory lecture	Tues. 13th Oct. at 9 a.m.
		Entomology and Parasitology	Tues. 13th Oct. at 10 a.m.
		Bacteriology	Tues. 13th Oct. at 2 p.m.
		Diseases of Tropical Climates	Wed. 14th Oct. at 10 a.m.
		Virology (Bacteriology Dept.)	Mon. 19th Oct. at 3.15 p.m.
SPRING TERM—		Diseases of Tropical Climates	Tues. 12th Jan. at 9 a.m.
		Tropical Hygiene	Tues. 12th Jan. at 12 noon.
		Applied Physiology	Tues. 12th Jan. at 2 p.m.
		Venereal Diseases	Thurs. 14th Jan. at 11.15 a.m.
		Tuberculosis	Sat. 16th Jan. at 9 a.m.
		Elementary Statistics (6 meetings)	dates to be announced.

¹ Alterations in the days and hours of classes may be necessary.

COURSES OF INSTRUCTION

DISEASES OF TROPICAL CLIMATES

Dr. FREDK. J. WRIGHT, Senior Lecturer

The course is given in autumn and spring. Clinical demonstrations will be given in the Tropical Diseases Unit, Eastern General Hospital. The course covers the following subjects: **Part I**—Protozoal diseases (malaria, blackwater fever, leishmaniasis, trypanosomiasis, amoebiasis); bacterial infections (bacillary dysentery, enteric fevers, salmonellosis and food poisoning, cholera, plague, leprosy, tetanus, anthrax, glanders, melioidosis, tularemia), brucellosis; rickettsial infections, bartonellosis; yaws, relapsing fevers, leptospirosis, rat-bite fevers. **Part II**—Virus diseases (dengue, sandfly fever, yellow fever, smallpox, rabies). Epidemic hæmorrhagic fever. Infections due to Helminths (*Ascaris*, *Ancylostomidæ*, *Strongyloides*, *Dracunculus*, *Filariidæ*, *Schistosoma*, *Paragonimus*, *Clonorchis*, *Cestoda*); deficiency diseases (kwashiorkor, pellagra, beriberi, scurvy); sprue, cirrhosis of liver, epidemic dropsy, tropical ulcers and skin diseases: poisons of snakes, scorpions and insects; anæmia; tropical eosinophilia.

BACTERIOLOGY

PROFESSOR CRUICKSHANK; Dr. SWAIN, Reader; Dr. BOWIE, Senior Lecturer; Dr. GOULD, Lecturer

The course includes lectures, practical work and demonstrations on bacteriological subjects of special importance in tropical medicine. It also comprises the medical aspects of protozoology. The various methods applicable to the diagnosis of infections of tropical climates are dealt with and practical instruction in sero-diagnostic tests is given.

Eight lectures and demonstrations on tropical virus infections will be given during the Part I course.

ENTOMOLOGY AND PARASITOLOGY

PROFESSOR SWANN; Dr. RAYSKI, Mr. PAGE and Mrs. ADAM, Lecturers

A course of about forty meetings, qualifying for the diploma in Tropical Medicine and Hygiene, will be given in autumn. Lectures, practical work and demonstrations will deal with:—

Protozoology

Lectures cover the structure, life cycles and occurrence of the human pathogenic Protozoa. Brief reference is made to the harmless species found in man and to some closely related pathogenic species of other mammals.

In the laboratory students will have the opportunity to examine living parasites and to practise methods by which they may be stained and identified. Prepared slides of type specimens will be demonstrated.

Entomology

Classification and structure of arthropoda; physiology of insects; comparative study of feeding mechanisms of insect vectors; recognition, structure, biology and bionomics of (a) main dipterous vectors of the Anophelini; Culi-cini; Ceratopogonidæ, Phlebotominæ, Simuliidæ, Tabanidæ, Chloropidæ Muscidæ and Calliphoridæ and their relation to malaria, yellow fever, dengue, filariasis, leishmaniasis, yaws, trypanosomiasis, diarrhœal diseases and myiasis. (b) Fleas, plague and murine typhus. (c) Lice, relapsing, typhus and trench fevers. (d) Reduviidæ, *Trypanosoma cruzi*. (e) Acarina—relationship of important members of Argasidæ, Ixodidæ, Sarcoptidæ, and Trombiculinæ to relapsing fever, rickettsial and virus diseases, tick paralysis and scabies. Brief account of arthropods with a high nuisance value—bedbugs, centipedes and scorpions.

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Helminthology

General morphology, physiology, terminology and classification of the Trematoda, Cestoda and Nematoda. Diagnostic features, life-history, bionomics and geographical distribution of the principal helminths found in man. Consideration of factors conducive to the spread of helminthiasis and of control. Brief account of Gordiacea, Acanthocephala and Hirudinea.

In the laboratory, members of the class will study examples of adults and developmental stages of species of medical importance; instruction will also be given in the various techniques employed in helminthology.

TROPICAL HYGIENE

Dr. A. R. MILLS, Lecturer

The course will be given in the spring and will deal with the following subjects:—

The principles and organisation of public health in the tropics. Meteorology, climatic diseases. Water: sources, purification, etc. Conservancy: human waste disposal; refuse disposal. Housing: village and town planning. Effects of industrialisation on health and social organisation. Population dynamics. Health surveys and methods. Food: public health control of foodstuffs. Epidemiological and social conditions affecting tropical peoples. Communicable disease control; arthropod-borne diseases due to viruses, rickettsia, bacteria, protozoa and metazoa. Infections resulting from defective environmental and personal hygiene due to bacteria, protozoa and helminths. Proximity and contact infections. Infections derived from the lower animals. Cosmopolitan diseases in the tropics. Nuclear medicine, principles and public health aspects. The design of public health programmes for developing countries. International health. The methods of control of the principal animal vectors of communicable disease.

Films will be shown, and there will be visits to waterworks, a dairy, an abattoir, sewage works and child welfare centres. Edinburgh Public Health Department, the Royal Infirmary of Edinburgh and the Port of Leith will also be visited.

APPLIED PHYSIOLOGY

Dr. PASSMORE, Reader

Causes of nutritional disorders; nutritional requirements; food values; assessment of nutritional status; prevention of nutritional diseases; physiological regulation of body temperature; effects of adverse climate; methods of heating, cooling and ventilation; vitiated atmospheres; clothing; effects of lighting and noise; industrial fatigue.

VENEREOLGY

Dr. LEES, Lecturer

Recent advances in diagnosis and treatment of venereal diseases with special reference to methods suitable for tropical conditions; endemic syphilis and other treponematoses; venereal infections predominantly found in tropics; prevention of venereal diseases and control of treponematoses.

TUBERCULOSIS

PROFESSOR CROFTON and Lecturers

A course of ten sessions is given in the spring term at the Royal Victoria Dispensary, on a discussion group basis, dealing with the diagnosis, prevention and treatment of tuberculosis.

ELEMENTARY STATISTICS

Mr. SKLAROFF, Lecturer

Practical application of statistical methods in tropical medicine and epidemiology—types of measurement—tabulation—rates, ratios—distributions and variation—the laws of chance—tests of significance—estimates—special problems of collection of data in tropical lands.

Diploma in Medical Services Administration

DIPLOMA IN MEDICAL SERVICES ADMINISTRATION

Application for Admission. (See p. 166)

Regulations

Entrance Qualifications.—Candidates for the Diploma must be graduates of the University of Edinburgh or of some other approved university or possess such other qualifications as the Faculty of Medicine on the recommendation of the Board of Studies may from time to time approve.

Previous experience of health services administration though desirable is not a necessary prerequisite for admission.

Residence.—Candidates shall attend for three consecutive terms of whole-time study, extending from October to July.

Curriculum.—The work for the Diploma shall consist of lectures, seminars and practical instruction. The curriculum will include the following courses:—

- (i) Hospital Administration
- (ii) Medical and Social Care
- (iii) Statistics
- (iv) Sociology, Psychology and Health Education

and,

for candidates who do not possess a medical degree or qualification,

- (v) Medical information.

Exemptions.—Candidates who have had considerable previous training in any theoretical or practical subject may be granted exemption in this subject by the Board of Studies.

Examination.—(a) Admission to the examination is contingent upon the candidate having complied with the following conditions:—

- (i) completion of the prescribed courses.
- (ii) possession of a certificate testifying that the candidate has regularly attended the course and duly performed the work thereof.
- (iii) presentation of a Day-book in which the candidate has made regular and satisfactory entries relating to the practical work of the course together with brief and critical observations on the lessons to be derived therefrom.
- (iv) submission of a dissertation based on investigation of some aspect of medical services administration.

(b) The examination shall include written and oral examinations on the subjects of the curriculum.

Fees.—The fee for the Diploma, including tuition and examination, is £70. The course on Introduction to Medicine is included in this fee.

COURSES OF INSTRUCTION

Hospital Administration

The course will start with instruction on administrative theory and the history and development of hospitals, to provide a background for other teaching. But some practical instruction, mainly in the form of visits to hospitals, will commence immediately and there will be seminar-discussions on this. Each student will be required to write up his experiences in a day-book (also covering visits on social and medical care) and to present a dissertation based on investigation of some aspect of hospital administration.

Administrative Theory.—Twenty lectures during the autumn term: (1) an examination of administrative organisation, with comparisons between the public services and industry; the general problem of administration, including planning, organisation, co-ordination, staffing and control; (2) a study of human problems in organisations and the extent to which use can be made of the growing body of knowledge of human behaviour in the explanation and solution

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of problems of human relationships. There will be discussion and experiments in the applications of scientific methods in work situations.

Organisation and Management.—Thirty lectures during the three terms: The structure of the National Health Service; hospital boards of management; negotiating machinery and the trades unions; the supervision of general services, laundries, catering, etc.; the management of special services and hospital departments (admissions, records, casualty, out-patient department, X-ray, laboratories, anaesthesia and surgical theatres, pharmacy, physiotherapy, occupational therapy, rehabilitation and convalescence, social service, patient amenities); education and training (*a*) medical staff, (*b*) auxiliary staff, (*c*) nursing staff; special hospitals (children's, tuberculosis, chronic, infectious diseases, mental); the policy-making organisations (Department of Health for Scotland, Regional Hospital Boards, Boards of Management of grouped hospitals, etc.).

History and Development of Hospitals.—Ten lectures during the autumn term: history of voluntary Poor Law and municipal hospitals; mental hospitals and isolation hospitals, sanatoria and other special institutions; the development of local, regional and national hospital services.

Law and Ethics relating to Hospitals.—Ten lectures during the spring term on law relating to hospitals: responsibility for patients, responsibility of hospital staff, drugs, disposal of the dead and post-mortems, etc. Ethics relating to hospitals will be considered separately.

Accounting.—Ten lectures during the spring term with emphasis on budgetary and other forms of control.

Planning, Construction and Maintenance.—Ten lectures during the summer term on hospital construction and planning (to include cost control during building operations).

Practical Work.—There will be one morning of practical work and one seminar each week throughout the three terms. These seminars will relate the practical work, the lectures and the dissertation topics to the theory of administration.

Dissertation.—The work for the dissertation constitutes an important part of the curriculum and will be used to develop insight into aspects of medical services administration and the methods of assessment and investigation.

Medical and Social Care

The aim of this course is to provide the community and social background for detailed study of hospital administration. It will be a three-term course, the first two terms of which are instructional, in contrast to the third term, in which the aim will be to draw together a great deal from other courses and to add to this the experience of the various health services of other countries.

Social Security.—Ten lectures during the autumn term: a study of poverty in the nineteenth and twentieth centuries and the methods adopted by society for its alleviation; history of social security legislation; the existing services, statutory and voluntary, for the relief of poverty and the promotion of individual and family well-being.

History and Development of Public Health and Medical Services.—Ten lectures during the autumn term: their present organisation and functions; the evolution of central and local authorities and their present duties; the administration, organisation and management of public health and medical departments and institutions; international health organisations and their functions.

Economics.—Ten lectures during the spring term on the economics of the health and social services and how their policies are directed.

Environmental Control.—Ten lectures during the spring term: the principles of sanitation; housing policy and the influence of housing on health; occupational hygiene and the influence of occupation on health.

Practical Work.—Ten visits during the first term to personal health and social services (including some voluntary services).

Ten visits during the second term to the environmental services of the Local Authority, industrial rehabilitation units, group practices, health centres, etc.

Seminars.—Ten seminars of three hours each during the summer term on selected topics: health services of other countries; care of the aged; a critique of the welfare state; nursing services; the health of the people and the standard of living; the co-ordination of domiciliary services for the family; methods of general practitioner remuneration, etc.

Statistics

The aim of the course is to enhance the ability of the student to make critical assessments in those fields which are amenable to quantitative analysis and enumeration, and to acquaint him with some important statistical techniques and their limitations.

Statistical Methods.—Forty sessions of two hours each during the autumn and spring terms, mainly practical, on simple statistical methods: the presentation of statistical data; mortality and morbidity rates; standardisation; distributions; the use of means, modes and medians; simple tests of significance; the use of life table methods; methods of analysis; instruction in the use of punch cards and of Hollerith equipment.

Sources of Information.—Thirty lectures during the three terms on sources of information on mortality, morbidity and hospital care. During the first two terms these lectures will deal mainly with census and registration data, but will include an account of enquiries that have been made into the use of the hospital services.

Hospital Statistics.—Ten sessions of three hours each during the summer term. This will be practical work and will introduce the student to the types of index that are of general interest to the administration, to statistical treatment of hospital accounting and to the checks that can be kept on the use of out-patient departments, operating theatres, etc. The student may also participate in some *ad hoc* enquiries into the running of the services in this hospital region.

Sociology, Psychology and Health Education

The principal aims of this course are to outline the social framework within which medical institutions function, to indicate some of the psychological influences affecting their working and to examine the possible uses of sociological analysis as applied to health and medical care situations.

Community Structure.—Ten lectures during the first term will provide an introductory course in "social anatomy". It will deal with social class differences and their economic, cultural and medical implications; family structure, its varied patterns at different times and in different societies; the structure of different types of urban and rural community.

Social and Psychological aspects of Medical Care.—Ten lectures during the second term. This will deal with the background and social position of the medical and allied professions (status problems); the hospital considered as a social system, with particular reference to its impact on the patient; special problems of the mental hospital; the individual psychology of illness, and the relevance of the cultural background—i.e. community attitudes to illness, pain, medical care and death.

Social and Industrial Psychology.—Twenty lectures during the spring term: the diagnosis of attitudes; the assessment of personality and of cognitive abilities for occupational guidance and selection; the influence of the psychological and social environment upon the individual—all with a general orientation to problems of occupational adjustment.

Faculty of Medicine—Medicine

Health Education.—Ten sessions of two hours each during the summer term. These have an essentially practical emphasis and deal with health education campaigns in the community and in the hospital.

Seminars.—Five seminars of two hours each will provide an opportunity for the discussion of selected social issues and their administrative implications. Topics to be discussed include status, social breakdown, and hospital and community.

Medical Information

The aim of this course is to familiarise non-medical people with medical terminology and situations, and thus to aid communication.

The course is given in the autumn and spring terms. During the autumn there are twenty lectures dealing with the following topics: the names of major anatomical structures, etc.; a brief outline of the main biological functions (digestion, respiration, etc.); chief characteristics of main diseases, injuries and causes of death; the terminology of these phenomena and their derivations.

In the spring term there are ten lectures and five demonstrations: a description of the duties and training of the medical and auxiliary specialists; the kinds of problems presented by major diseases, *e.g.* diabetes, arthritis, epilepsy, disseminated sclerosis, ulcerative colitis and colostomy, etc.; codes of conduct; doctor/patient, doctor/other doctors and doctor/other medical workers.

TIMETABLE OF WRITTEN EXAMINATIONS FOR DEGREES OF M.B., Ch.B.

Dates and times of examination are subject to revision. Due notice will be given on the notice-boards of the dates of oral, practical and clinical examinations, some of which take place before the written examinations.

	Sept.-Oct. 1959	Nov. 1959	Dec. 1959	March 1960	June 1960	Sept. 1960
Chemistry	Sept 17 2-4.30 .	.	.	.	23 2-4.30 .	22 2-4.30
Physics	19 10-12 .	.	.	17 2-4	.	24 10-12
Biology	17 10-12 .	.	.	.	25 9-11 .	22 10-12
Anatomy (including Embryology) .	19 9-12 .	.	.	16 9-12	.	24 9-12
Physiology	18 9-12 .	.	.	15 9-12	.	23 9-12
Biochemistry	18 2-4 .	.	.	15 2-4	.	23 2-4
Pharmacology and Therapeutics .	23 2-4, 4.30-5.30	.	.	.	24 2-4, 4.30-5.30	28 2-4, 4.30-5.30
Pathology and Bacteriology . .	24 9-12 .	.	.	.	25 9-12 .	29 9-12
Psychological Medicine	23 10-12 .	.	.	16 3-5	.	28 10-12
Public Health and Social Medicine .	24 2-4 .	.	.	.	28 3-5 .	29 2-4
Forensic Medicine	24 10-12 .	.	.	.	27 2-4 .	29 10-12
Child Life and Health	Oct 7 10-11.30	.	17 3-4.30	17 3-4.30	23 3-4.30	.
Medicine . . . . .	.	23 10-12.30	.	.	23 10-12.30	.
Obstetrics and Gynaecology . .	.	25 10-12.30	.	.	25 10-12.30	.
Surgery . . . . .	.	24 10-12.30	.	.	24 10-12.30	.

Faculty of Medicine—Medicine

Degree of Ch.M.

Dates and times of examination are subject to revision.

		Oct.-Nov. 1959			May 1960
Clinical, oral and practical	Oct. 29	{ At hours to be arranged. Due notice will be given if candidates have to appear on other dates	30	{ At hours to be arranged. Due notice will be given if candidates have to appear on other dates	
	30		31		

Diplomas

The examinations for the various diplomas are held as follows:—

D.M.R.D. and D.M.R.T.	.	.	.	March, June and September (Physics)
				September and March (R.D. or R.T., First and Final Examinations)
D.M.S.A.	.	.	.	June and September
Dip. Psych.	.	.	.	March and September
D.P.H.	.	.	.	June-July and September
D.T.M. & H.	.	.	.	December and March (Part I)
				March and June-July (Part II)

The hours and dates will be announced later.

**FACULTY OF MEDICINE
PROGRAMME
DENTAL SURGERY**

Dean of the Faculty of Medicine: **PROFESSOR J. H. F. BROTHERSTON**

TABLE OF COURSES

Terms:—Autumn—Oct. 13 to 18 Dec., 1959
Spring—Jan. 12 to March 18, 1960
Summer—April 19 to June 24, 1960

General

Courses	Day of Opening	Hour	Professors and Lecturers
GERMAN TUTORIAL COURSE (<i>Minto House</i> : 3 terms) (<i>p. 192</i>)	Oct. 15	5	Dr. Furness
THE NATURE OF KNOWLEDGE (<i>Old College</i>) (<i>p. 192</i>)			Dr. Broadie

Degree of B.D.S.

THE STUDY OF MEDICINE (<i>New Buildings</i>) (<i>p. 214</i>)	Oct.	..	..
PRINCIPLES OF SCIENTIFIC METHOD (<i>New Buildings</i>) (<i>p. 214</i>)	Apr. 20	..	..
CHEMISTRY (<i>King's Buildings</i>) (<i>p. 214</i>)			
Lectures (3 terms)	Oct. 15	11.30	} Prof. Hirst, Prof. Cottrell and Lecturers
Practical (3 terms)	Oct.	9	
PHYSICS (<i>Drummond Street</i>) (<i>p. 214</i>)			
Lectures (autumn and spring)	Oct. 13	2	} Dr. Dainty and Lecturers
Practical (autumn and spring)	Oct. 19	9	
BIOLOGY (<i>King's Buildings</i>) (<i>p. 215</i>)			
Lectures (3 terms)	Oct. 14	11.30	} Prof. Swann and Lecturers
Practical (2 terms)	Oct.	9-11	
TOOTH CARVING (<i>Dental School</i> : spring) (<i>p. 215</i>)	Jan. 12	3.30-5	{ Mr. Baxendine and Lecturers
ANATOMY (<i>New Buildings</i>) (<i>p. 215</i>)			
Lectures (3 terms)	Oct. 13	12	} Prof. Romanes and Lecturers
Microscopic (2 terms)	Oct. 16	2-4	
Regional (summer)	Apr. 20	12	
Practical (autumn and spring)	Oct. 13	10-12	
Practical (summer)	Apr. 19	2-4	
Dental Anatomy (autumn and spring)	Oct. 13	4	
Dental Histology, Practical (spring)	Jan. 15	2-4	
PHYSIOLOGY (<i>New Buildings</i> : 3 terms) (<i>p. 216</i>)			
Lectures	Oct. 15	9	} Prof. Whitteridge and Lecturers
Practical	Oct. 13	2-5	
Demonstrations	Oct. 14	10.30-12	
BIOCHEMISTRY (<i>New Buildings</i> : 3 terms) (<i>p. 216</i>)			
Lectures	Oct. 13	9	} Prof. Fisher and Lecturers
Practical	Oct. 13	2-5	
DENTAL METALLURGY AND PROPERTIES OF DENTAL MATERIALS (<i>Dental School</i> : autumn and spring) (<i>p. 217</i>)			
Lectures:			
Metallurgy	Oct. 14	9	} Mr. Watt and Dr. Howie
Materials	Oct. 16	4-5	
Demonstrations	Oct. 16	10-12	

Faculty of Medicine—Dental Surgery

Degree of B.D.S. (*continued*)

Courses	Day of Opening	Hour	Professors and Lecturers	
DENTAL MECHANICS (<i>Dental School</i>) (p. 217)				
Introductory course (summer)	Apr. 20	9	} Mr. Watt and Lecturers	
Practical (July and September)	July 4	9-5		
Lectures (autumn and spring)	Oct. 15	12		
Practical (3 terms and Christmas and Easter vacation periods)	Oct. 13	9		
OPERATIVE TECHNIQUE (<i>Dental School</i>) (p. 218)				
Junior Course (spring and summer)	Jan. 15	10	} Mr. Baxendine and Lecturers	
Senior Course (summer and autumn)	Apr. 19	2-4		
OPERATIVE DENTAL SURGERY (<i>Dental School</i>) (p. 218)				
Junior Course Lectures (spring and summer)	Jan. 15	9		
Senior Course Lectures (summer and autumn)	Apr. 25	12		
PATHOLOGY (<i>New Buildings</i>): summer and autumn) (p. 219)				
Lectures	Apr. 19	2	} Prof. Montgomery and Lecturers	
Practical	Apr. 21	3-5		
BACTERIOLOGY (<i>New Buildings</i>): summer and autumn) (p. 219)				
Lectures	Apr. 21	10	} Prof. Cruickshank and Lecturers	
Practical	Apr. 21	11-12.30		
PHARMACOLOGY AND DENTAL THERAPEUTICS (<i>New Buildings</i>): autumn and spring) (p. 219)				
Lectures	Oct. 13	3	} Prof. Perry and Lecturers	
Practical	Oct. 14	11-1		
DENTAL PROSTHETICS (<i>Dental School</i>) (p. 219)				
Junior Course Lectures (autumn and spring)	Oct. 14	12	} Mr. Watt and Lecturers	
Senior Course Lectures (autumn and spring)	Oct. 13	2		
LOCAL ANALGESIA (<i>Dental School</i>) (p. 220)				
Lectures (half of autumn)	Oct. 16	11	} Mr. Duvall	
MEDICINE (<i>New Buildings and Leith and Eastern General Hospitals</i>) (p. 220)				
Lectures (spring and summer)	Jan. 12	4	} Prof. Donald and Lecturers and Physicians to Leith and Eastern General Hospitals	
Clinical (spring and summer)	Jan. 12	11-1		
DENTAL SURGERY AND PATHOLOGY (ORAL PATHOLOGY) (<i>Dental School</i>) (p. 220)				
Junior Course Lectures (spring and summer)	Jan. 12	11	} Prof. Boyes and Lecturers	
Senior Course Lectures (spring and summer)	Jan. 14	2		
Dental Histopathology (spring)	Jan. 18	2-4		
DENTAL RADIOLOGY (<i>Dental School</i>): summer) (p. 221)				
Lectures	Apr. 20	11	} Prof. Boyes and Lecturers	
Practical	Apr. 21	2-4		
ORTHODONTICS (<i>Dental School</i>) (p. 221)				
Junior Course (autumn and summer)			} Mr. Hopkin and Lecturer	
Lectures	Oct. 13	11		
Practical	Apr. 19	2-4		
Senior Course (spring)	Jan. 15	3		

Table of Courses

Degree of B.D.S. (continued)

Courses	Day of Opening	Hour	Professors and Lecturers
SURGERY (<i>New Buildings and Royal Infirmary: autumn and spring</i>) (p. 221)			
Lectures	Oct.	4	} Prof. Bruce and Lecturers
Clinical	Oct.	11	
VENEREAL DISEASES (<i>Royal Infirmary: autumn</i>) (p. 222)			
	Oct.	11.30	Dr. Lees
DISEASES OF EAR, NOSE AND THROAT (<i>Royal Infirmary: autumn and spring</i>) (p. 222)			
	Nov.	11	{ Surgeons to Royal Infirmary, Ear, Nose and Throat Dept.
RADIOTHERAPY (spring) (p. 222)			
Lectures	Jan.	11	} Prof. McWhirter and Lecturers
Practical (<i>Royal Infirmary</i>)	Jan.	11	
PREVENTIVE AND SOCIAL DENTISTRY (<i>Dental School: autumn and spring</i>) (p. 222)			
	Oct. 15	3	} Prof. Brotherston and Lecturers
ETHICS, ECONOMICS and JURISPRUDENCE (<i>New Buildings: autumn and spring</i>) (p. 223)			
	Nov.	2	} Prof. Douglas Kerr and Lecturers
ORAL SURGERY (<i>Dental School: autumn</i>) (p. 223)			
	Oct.	4	Dr. MacLennan
PERIODONTAL DISEASES (<i>Dental School: summer</i>) (p. 223)			
	Apr. 20	12	Mr. Beagrie
DENTAL HOSPITAL PRACTICE (<i>Dental School</i>) (p. 223)			
Junior Course (3 terms and vacation periods)	..	..	..
Senior Course (3 terms and vacation periods)	..	..	..

Faculty of Medicine—Dental Surgery

INTRODUCTION

Director of Studies

The Director of Studies is Professor J. Boyes. He may be consulted by appointment made at his office in the Dental School, 31 Chambers Street, which is open during the terms (10-1 and 2-4; Saturday 10-12). **All communications requiring an answer should be accompanied by a stamped addressed envelope.**

Admission to the Faculty of Medicine

For the regulations governing admission to the Faculty of Medicine and exemption from the first year of the B.D.S. curriculum see Programme of Admission, pp. 5-6.

German Tutorial Course

Dr. FURNESS

Mon. and Thurs. at 5 during the three terms. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Students* (5th ed.).

The Nature of Knowledge

Dr. BROADIE

About twelve lectures at times to be arranged to suit students of different Faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (O.U.P.).

This course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations."* *Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.*

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degree of B.D.S. is £60.¹ The fee for presentation and examination of the M.D.S. thesis is £25. A fee of £3 is payable in respect of late payment of the annual fee.

¹ Candidates who, under Section X of the Regulations (pp. 198-199), are exempted from the first and second divisions of the Professional Examinations are required, after passing the final division, to pay the fee for the First and Second Professional Examinations (amounting to £10, 10s. and £2, 2s. respectively) before they can be admitted to the B.D.S. degree).

Fees

The single-class fee for tuition for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class, and £10 for a three-term class, but the fee for a two- or three-term class which meets on fewer than thirty occasions is £5. A practical class counts as a separate class, but when taken in conjunction with the theoretical course in the same subject, the combined fee for the lecture and practical class is £7, 10s., £12 and £15 for classes of one, two or three terms respectively. Non-graduating students taking more than one class are required to pay the annual fee.

Laboratory deposits, refunded at the end of the course, less a deduction for breakages, are exigible in the following classes: Biochemistry £1, 10s.; Chemistry £3; Microscopic Anatomy £1; Pathology (4th year) £1, 10s.; Physiology £1.

The fee for re-examination in the subjects of the B.D.S. degree is £1, 10s. per subject. The re-examination fee for the M.D.S. degree is £6 per section.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November, and after at the Matriculation Office, Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon, Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree students are required to submit the following documents, duly completed:—

Matriculation Form A
Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)
Form of Account for fees (where these are payable by local authority or other public body)
Permit to Matriculate
X-ray Certificate
Carnegie Trust Coupon (if any).

Matriculation Forms and the form of account for fees are available at the place of enrolment.

Non-graduating students are required to submit the documents detailed above along with particulars of the classes to be attended.

Faculty of Medicine—Dental Surgery

Non-matriculated students paying an entrance fee of £1 and taking certain classes in the table of courses require to submit:—

Entrance Form C
Enrolment Form
X-ray Card.

Students who require evidence of enrolment in order to obtain payment of their grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree Examinations

Candidates for degree examinations must be matriculated for the academic year in which the examination falls. They must enter for each examination at which they wish to appear and must state the subject or subjects in which they wish to be examined. On entering for examination they must present their matriculation card at the Matriculation Office. Candidates for the B.D.S. degree must also (at a later date, see below) show their class certificates at the Dean's Office, New Buildings.

Entries for Professional Examinations are received at the Matriculation Office, The Old College, from 10 to 12.30 and 2-4 during term and from 10-12.30 during the summer vacation except Saturdays, on the following dates:—

B.D.S.

September-December 1959 examinations

First Professional	21st Aug. 1959
Second Professional	31st Aug. 1959
Third Professional (Part I)	10th Nov. 1959
Third Professional (Parts II and III)	1st Sept. 1959
Fourth Professional (Parts II and III)	28th Aug. 1959
Fourth Professional (Part I)	17th Nov. 1959
Final Professional (Part III)	12th Oct. 1959

March 1960 examinations

First Professional	16th Feb. 1960
Second Professional	25th Feb. 1960
Third Professional (Parts I and II)	15th Feb. 1960
Fourth Professional (Part II)	15th Feb. 1960
Final Professional (Parts I and II)	15th Feb. 1960

June-July 1960 examinations

First Professional	26th May 1960
Second Professional	27th May 1960
Third Professional (Part III)	25th May 1960
Fourth Professional (Parts I and III)	25th May 1960
Final Professional (Parts I, II and III)	2nd May 1960

Entry for Professional Examinations

September 1960 examinations

First Professional	.	.	.	.	.	16th Aug. 1960
Second Professional	.	.	.	.	.	29th Aug. 1960
Third Professional (Parts II and III)	.	.	.	.	.	30th Aug. 1960
Fourth Professional (Parts II and III)	.	.	.	.	.	26th Aug. 1960

M.D.S.

December graduation	.	.	.	.	.	by 1st Oct. 1959
Summer graduation	.	.	.	.	.	by 1st Apr. 1960

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry. M.D.S. theses may be lodged later than the advertised dates only with the special permission of the Dean, the utmost extension of time being ten days. The late fee of £2 will be exacted in such cases. Candidates whose theses are thus submitted late are not eligible for medals and other similar awards.

If a candidate for the degree withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown, be allowed to appear at a subsequent diet without the payment of the re-examination fee. If a candidate appears for part of an examination but, without giving notice, does not appear for another part, for which he had entered, he will be held to have failed in the part for which he did not appear. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh."

Production of Class Certificates

Class certificates and examination cards must be shown at the Dean's Office, New Buildings, at the times stated below. The examination card, when stamped with the words "Certificates examined", constitutes the candidate's card of admission to the examination.

September-December 1959 examinations

First Professional	.	.	.	.	.	16th Sept. (10-12)
Second Professional	.	.	.	.	.	17th Sept. (10-12)
Third Professional (Part I)	.	.	.	.	.	25th Nov. (2-4)
Third Professional (Parts II and III)	.	.	.	.	.	16th Sept. (10-12)
Fourth Professional (Parts II and III)	.	.	.	.	.	15th Sept. (10-12)
Fourth Professional (Part I)	.	.	.	.	.	15th Dec. (10-1)
Final Professional (Part III)	.	.	.	.	.	11th Nov. (10-1)

March 1960 examinations

First Professional	.	.	.	.	.	14th Mar. (10-1)
Second Professional	.	.	.	.	.	11th Mar. (10-1)
Third Professional (Parts I and II)	.	.	.	.	.	15th Mar. (2-4)
Fourth Professional (Part II)	.	.	.	.	.	18th Mar. (2-4)
Final Professional (Parts I and II)	.	.	.	.	.	14th Mar. (2.30-4)

Faculty of Medicine—Dental Surgery

June 1960 examinations

First Professional	22nd June (2-4)
Second Professional	23rd June (2-4)
Third Professional (Part III)	22nd June (10-1)
Fourth Professional (Parts I and III)	17th June (10-1)
Final Professional (Parts I and II)	21st June (10-1, 2-4)
Final Professional (Part III)	17th June (10-1, 2-4)

September 1960 examinations

First Professional	14th Sept. (10-12)
Second Professional	15th Sept. (10-12)
Third Professional (Parts II and III)	14th Sept. (10-12)
Fourth Professional (Parts II and III)	13th Sept. (10-12)

GRADUATION

Registration and Entry

Every student, who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, and must pay £1 for registration as a member of the General Council, if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards and current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Men graduands for the degrees of B.D.S. and M.D.S. are requested to appear in black or dark coloured clothes, white starched collars, and white bow neck-ties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown worn for the degrees of B.D.S. and M.D.S., is one of black silk or stuff with long sleeves. The hoods are as follows:—B.D.S.—black stuff, lined with crimson silk bordered with ivory poplin three inches broad, edged with white fur and showing three inches of crimson silk at the front of the neckband; M.D.S.—black cloth, lined with crimson silk bordered with ivory poplin three inches broad, and showing three inches of crimson silk at the front of neckband. For the academic dress for other degrees see UNIVERSITY CALENDAR "Academic Costume." There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation in Dentistry

The Sponsio Academica for graduands in Dentistry, who should stand when it is read to them at the Graduation Ceremony, is

"Whereas the privilege of a Degree in Dentistry is now to be conferred upon me, I promise that I will to my latest breath abide steadfast in all due loyalty to the University of Edinburgh.

"Further, that I will practise the art of Dentistry with care, with purity of conduct and with uprightness.

"Lastly, that, whatever things seen or heard in the course of dental practice ought not to be spoken of, I will not, save for weighty reason, divulge."

REGULATIONS FOR THE DEGREES OF B.D.S. AND M.D.S.¹

I. The Degrees of Bachelor of Dental Surgery (B.D.S.) and Master of Dental Surgery (M.D.S.) in the Faculty of Medicine may be conferred by the University of Edinburgh.

II. Regulations for graduation in Dental Surgery shall from time to time be prescribed by the Senatus Academicus with the approval of the University Court, and these Regulations shall be administered by the Faculty of Medicine through a Board of Dental Studies to be instituted by the Senatus Academicus under this Ordinance.

Preliminary Qualifications

See Programme of Admission, pp. 3-4.

IV. The course of study for the Degree of Bachelor of Dental Surgery shall extend over not less than four calendar years and one term (51 months).²

V. (1) Candidates for the Degree must during the curriculum have attended a course or courses of instruction in each of the following subjects of study extending over not less than the number of terms specified in each case and including such class examinations as may be prescribed in connection with the several courses, viz.:—

Chemistry (including Organic Chemistry)	2 terms
Practical Chemistry	1 term
Physics (with practical work)	1 term
{ Biology } or { Botany (with practical work)	3 terms
{ Practical Biology } or { Zoology (with practical work)	2 terms
Anatomy and Practical Anatomy	3 terms
Physiology and Practical Physiology	3 terms
Biochemistry and Practical Biochemistry	3 terms
Dental Mechanics	2 terms
Dental Metallurgy and Properties of Dental Materials	1 term
Pathology and Practical Pathology	2 terms
Bacteriology and Practical Bacteriology	2 terms
Dental Anatomy	1 term
Dental Histology, Practical	1 term
Surgery	2 terms
Radiology	1 term
Pharmacology and Dental Therapeutics	1 term
Medicine	2 terms
Dental Surgery and Pathology	2 terms
Operative Dental Surgery	2 terms
Oral Surgery	1 term
Orthodontics	1 term
Dental Prosthetics	2 terms
Anæsthetics (Local and General)	1 term
Ethics, Economics and Jurisprudence	1 term
Preventive Dentistry	1 term

(2) The candidate must have received instruction in Practical Dental Mechanics for such number of hours as may be approved by the Senatus on the recommendation of the Faculty of Medicine. This instruction shall be obtained in the Edinburgh Dental School or other Dental School or Dental Department of a General Hospital recognised for the purpose by the University Court after consultation with the Senatus.

¹ University Court Ordinance, No. 74.

² The duration of the course is five years.

Faculty of Medicine—Dental Surgery

(3) The candidate must have attended for at least two calendar years the ordinary practice of the Edinburgh Dental Hospital or other Dental Hospital or the Dental Department of a General Hospital recognised for the purpose by the University Court after consultation with the Senatus.

(4) The candidate must have attended for at least four terms the Medical and Surgical Practice of the Royal Infirmary of Edinburgh, or of a General Hospital which accommodates not fewer than eighty patients, and possesses distinct staffs of physicians and of surgeons, and is recognised by the University Court, after consultation with the Senatus.

(5) The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Surgery extending over not less than six months or two terms. These courses may be conducted by the Professor of Clinical Surgery, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary Surgeons of the Hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Surgical Out-Patient Department, together with clinical lectures or demonstrations.

(6) The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Medicine extending over not less than six months, or two terms. These courses may be conducted by a Professor of Clinical Medicine, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary Physicians of the Hospital and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Medical Out-Patient Department, together with clinical lectures or demonstrations.

(7) The candidate must have received at a Public Hospital or Dispensary, to such an extent and under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, instruction in the following subjects, or in such other special departments as may from time to time be determined, namely, Venereal Diseases, Diseases of the Ear, Nose and Throat, and Maxillo-Facial Surgery.

(8) The candidate must have been properly instructed in the Administration of Anæsthetics under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.

VI. (1) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Dental Studies, to determine from time to time the number of meetings of which each course of instruction specified in Section V hereof shall consist, the cases in which two half-courses shall be deemed equivalent to a full course and the cases in which the subjects of any course or courses may be sub-divided or combined for purposes of study.

(2) It shall be the duty of each of the Professors, Lecturers and Instructors to submit to the Board of Dental Studies annually before the beginning of the second term of the Academic Year a syllabus and a scheme specifying what proportion of his course or courses shall be devoted to lectures, practical work, examinations and tutorial instruction respectively. The Board of Dental Studies shall transmit the syllabuses and schemes to the Faculty of Medicine, who shall submit them to the Senatus, with such observations as they may think fit to make thereon. The Senatus shall thereafter transmit them, with such observations as they may think fit to make thereon, to the University Court for their approval.

(3) The Senatus, with the approval of the University Court, shall have power, after consultation with the Faculty of Medicine, to make from time to time Regulations prescribing the order in which the several courses of instruction

B.D.S. and M.D.S. Regulations

shall be attended, or increasing the number of terms over which a course of instruction in any subject shall extend, or restricting the number of courses that may be attended in any term, or removing any subject from the lists of subjects specified in Section V of this Ordinance, or adding to the said lists additional subjects of study as part of the prescribed curriculum of the courses of study beyond the periods of years or terms specified in Section V hereof.

(4) The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, or on the practice of any Hospital or Dispensary, or on practical instruction in the laboratory of a Dental Hospital or Dental Department of a General Hospital or of a Dental School, to be presented by a candidate for the Degree of Bachelor of Dental Surgery. Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate, bearing not only that he has attended the course regularly, but also that he has duly performed the work thereof.

VII. With respect to the Places and Institutions at which Dental Study may be pursued, the following Regulations shall have effect:—

- (a) Not less than two years, or six terms, of Dental Study must be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.
- (b) The remaining two years and three months, or seven terms, of Dental Study may be spent in attendance on courses of instruction in the subjects of the curriculum at any University of the United Kingdom or at such Dominion, Indian, Colonial or Foreign University, or at such College incorporated with or affiliated to a University, or at such Medical or Dental Schools, or under such Teachers as may be recognised for the purpose by the University Court, after consultation with the Senatus.
- (c) Of the subjects of study specified in Section V, Sub-section (1), not less than one-half the number must be studied at a University of the United Kingdom, or at a recognised Dominion, Indian, Colonial or Foreign University, or at a recognised College incorporated with or affiliated to a University.
- (d) The remainder of the subjects of study specified in Section V, Sub-section (1) may be taken in one or more Medical or Dental Schools recognised under paragraph (b) of this Section or under one or more Teachers recognised under the same paragraph.
- (e) It shall be in the power of the University Court, if they shall see cause, at any time, to withdraw or suspend any recognition they may have granted to any Institution or Teacher.
- (f) The University Court shall not grant or continue recognition to any Institution or Teacher, unless they shall be satisfied after consultation with the Senatus, that the courses of instruction given in such Institution, or by such Teacher, are equivalent to the courses prescribed for Graduation in the University.

VIII. (1) The examination for the Degree of Bachelor of Dental Surgery shall include the following subjects arranged in the following divisions,¹ viz.:—

First—

Part I. Chemistry

Part II. Physics

Part III. Biology (Botany and Zoology)

¹ Altered by the Senatus under Section IX (2) of the Ordinance to read as shown (July 5 and February 1955).

Faculty of Medicine—Dental Surgery

Second—

Anatomy and Physiology (including Biochemistry)

Third—

- Part I. Dental Metallurgy and the Properties of Dental Materials
- Part II. Dental Anatomy and Histology
- Part III. Dental Mechanics

Fourth—

- Part I. Pathology and Bacteriology
- Part II. Pharmacology and Dental Therapeutics
- Part III. Junior Operative Dental Surgery and Radiology

Final—

- Part I. Medicine and Surgery
- Part II. Preventive Dentistry, Ethics, Economics and Jurisprudence
- Part III. (a) Dental Surgery and Pathology
(b) Senior Operative Dental and Oral Surgery, Extractions and Anæsthetics
(c) Dental Prosthetics
(d) Orthodontics

(2) No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject, and fulfilled the prescribed conditions with reference thereto.

(3) The examination in each subject shall be conducted both orally and in writing; and in those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical acquirements of the candidates.

(4) The Senatus, with the approval of the University Court, shall have power to authorise the Examiners, in determining the result of any examination, to take account of the records of the candidate's work during his attendance on the prescribed course of instruction, provided that such records are duly attested by satisfactory evidence submitted to the Examiners.

IX. (1) The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restricted as to his attendance on qualifying courses of instruction in any of the subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

(2) The Senatus, with the approval of the University Court, shall have power, by regulations made from time to time, to alter the number of the divisions specified in Section VIII, to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall, for the purposes of examination, be subdivided or combined or transferred from one division to another; provided always that the final division shall in all cases include practical and clinical examinations in Medicine and Surgery, Operative Dental Surgery, including Extractions and Anæsthetics, Dental Prosthetics and Orthodontics.

X. (1) The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who at any other University of the United Kingdom or elsewhere has attended an approved course of instruction and passed an approved examination in any of the subjects comprised in the first or second division specified in Section VIII, to determine that such examination

shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Edinburgh: Provided always that in the judgment of the Senatus, the course of instruction is substantially equivalent to the course prescribed for graduation in the University of Edinburgh, that the standard of the examination is satisfactory, and that, in accordance with the provisions of Section VII, Sub-section (a), not less than two years or six terms of Dental Study shall be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.

(2) In the case of a candidate who has, at the University of Edinburgh, or at any University of the United Kingdom, or at any other University specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics and Biology (including therein Botany and Zoology), Anatomy or Physiology, qualifying for a Degree in Arts, Science or Medicine, the Senatus shall have power to exempt him from passing the examination in the corresponding subject or subjects comprised in the first and second divisions: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary or Entrance Examination.

XI. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

XII. A candidate who has passed the examination in the subjects comprised in the first division may be admitted to examination in the subjects of the second division after the end of the sixth term of Dental Study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XIII. A candidate who has passed the examinations in the subjects of the second division may be admitted to examination in the subjects of the third division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine. A candidate who has not passed in Junior Operative Dental Surgery of the [fourth] division shall not be allowed to continue Dental Work of the fourth year.

XIV. A candidate who has passed the examinations in the subjects of the [fourth] division may be admitted to examination in the subjects of the [fifth] or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to Part III of the final examination before he has completed four calendar years and three months of Dental Study.

XV. If any candidate at any of the examinations be found unqualified in a subject or subjects, he may not again be admitted to the examination unless he has pursued such further study, for such time and under such conditions as the Faculty of Medicine may prescribe. Satisfactory certificates that the candidate has complied with the requirements of the Faculty must be produced when candidates re-enter for examination.

XVI. If any candidate at any of the examinations be found to have passed in a subject or subjects with sufficient merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects included in the same examination, provided that he has attained a reasonable standard in the subject or subjects in which he is unqualified.

XVII. After the candidate has fulfilled the prescribed conditions and has satisfied the Examiners in the subjects of the [fifth] or final division of the examination, the Dean of the Faculty of Medicine shall, on behalf of the Faculty, report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degree of Bachelor of Dental Surgery on payment of the required fees.

Faculty of Medicine—Dental Surgery

XVIII. Every candidate for graduation shall produce evidence of having conformed to the Regulations which were in force at the time he commenced the course of Dental Study.

XIX. Every candidate for graduation must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

Professional Examination for the Degree of Master of Dental Surgery (M.D.S.)

XX. (1) Subject to the conditions hereinafter specified, the Degree of Master of Dental Surgery may be conferred on any candidate who has obtained the Degree of Bachelor of Dental Surgery of the University of Edinburgh, or, having obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery, or the Degree of Bachelor of Science, of the University of Edinburgh, holds in addition a Registrable Dental Qualification and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degree of Bachelor of Dental Surgery (or a Registrable Dental Qualification in addition to the other Degrees of the University of Edinburgh specified above) he has engaged for at least one year in attending the Dental Practice of a recognised Hospital, or in scientific work bearing directly on his profession such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial or Public Dental Services, or for at least two years in Dental Practice.

(2) Each candidate for the Degree of Master of Dental Surgery shall be required to pass an examination in Dental Surgery and Pathology and, in addition, he may present himself for examination in such special department of Dental Science or Practice as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degree of Bachelor of Dental Surgery (or a Registrable Dental Qualification in addition to the other specified Degrees of the University of Edinburgh) as the Senatus may appoint for the purpose: Provided always that in special circumstances, and if the Thesis presented by the candidate in terms of Sub-section (3) of this Section is of exceptional merit, the Senatus may, if they see fit, on the recommendation of the Faculty of Medicine, exempt a candidate from the whole or part of such examination.

For candidates who do not profess a special subject the examination shall be confined to Dental Surgery and Pathology and will include written, practical and oral examinations.

For candidates who profess a special subject, the examination will be in two parts—Major and Minor—and may be taken in either of the following forms:—

A. Major Part.—The examination will include (a) a written paper in Dental Surgery and Pathology; and (b) a practical and oral examination.

Minor Part.—A practical and oral examination in a department of Dentistry professed by the candidate and approved of by the Faculty.

B. Major Part.—One of the following special branches of Dental Science:—Anatomy; Physiology; Dental Anatomy and Physiology; Pathology; Bacteriology; Orthodontics; Prosthetics; or such other branch of Dental Science as the Senatus on the recommendation of the Faculty of Medicine may approve.

The examination will include:—(a) A written paper in the subject professed, (b) a practical and oral examination.

Minor Part.—Dental Surgery and Pathology.

(3) Each candidate for the Degree of Master of Dental Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, fourth and fifth divisions of the examinations for the Degree of Bachelor of Dental Surgery, which he may have made a subject

of special study, excepting subjects which are exclusively medical or surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus. The Faculty may, if they see fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof.

No Thesis will be approved which does not contain either the results of original investigations in Practical Dentistry, or in some of the Sciences embraced in the curriculum for the Bachelor's Degree or, a critical exposition of the researches and opinions of others on the subject selected by the candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.¹

(4) A Bachelor of Dental Surgery or other qualified candidate for the Degree of Master of Dental Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such Degree or other qualification, on the practice of his profession in a British Dominion, India, a Colony or any Foreign Country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in Dental Surgery and Pathology and in a special department of Dental Science or Practice prescribed in Sub-section (2) of this Section, at such time after he has received such Degree or so qualified as the Senatus may appoint for the purpose; but the Degree of Master of Dental Surgery shall not be conferred on him unless he shall produce a certificate showing that, after having received the Degree of Bachelor of Dental Surgery or having qualified otherwise, he has been engaged for at least one year in attending the Dental Practice of a recognised Hospital or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University or in the Naval, Military, Colonial or Public Health Dental Services, or for at least two years in Dental Practice.

Examiners

XXII. The Examiners for the Degree of Bachelor of Dental Surgery shall be the Professors and Lecturers who conduct courses of Dental Study in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary. Provided that the Court shall make such provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted under Regulations framed by the Senatus, subject to the approval of the University Court.

Board of Studies

XXIII. The Senatus Academicus shall institute a Board of Studies in Dentistry, consisting of such members of the Senatus and Lecturers in the

¹ Candidates are required to lodge two copies of their theses. Both copies of the thesis (if accepted) will be retained by the University, but after graduation as M.D.S. a candidate may borrow one copy of this thesis for a limited period, on obtaining permission from the Dean to do so, and on depositing £1. If a thesis includes expensive diagrams, etc., a single copy of such portions of the thesis will be accepted, but, where possible, photographic copies of the originals should accompany the second copy of the thesis. Candidates are required to submit with the thesis, but not bound with it, three copies of a summary setting out in approximately 250-500 words of the main argument and conclusions of the thesis. The University shall have the right to publish such summaries of approved theses, or to authorise their publication by any other learned body. Candidates are required to type or write their theses on paper, 11 in. by 8½ in., with margins 1½ in. at each side. For handwritten theses the paper should have faint lines between the two margins. The thesis is to be written, or typed, on one side of each leaf only; and the subject of the thesis and name of the author should appear on the front of the outside cover, and, if the thesis is of sufficient thickness, also along the back of the cover. There is no regulation as to length of thesis.

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University as the Senatus may from time to time select, and shall appoint one of the members of the Board to be Convener. The Principal of the University and the Dean of the Faculty of Medicine shall be *ex officio* Members of the Board of Studies.

CURRICULUM FOR THE DEGREE OF B.D.S.

Students are admitted to begin the curriculum in October each year.

The order of attendance on classes given below must be followed except in special cases authorised by the Faculty after application to the Dean. The earliest dates at which students may appear for the Professional examinations are indicated. Examinations are held in the subjects of the First Professional examination in March, June and September; in the Second Professional examination in June, September and the following March; in the Third Professional examination, Part I in December and March, Part II in March and September and Part III in June and September; and in the Fourth Professional examination, Part I in December and June, Part II in March and September, and Part III in June and September; and in the Final Professional examination, Parts I and II in March and June and Part III in June and November.

First Year—Autumn

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-11	Phys. Prac.	Phys. Prac.	Biol. Prac.	Biol. Prac.	Chem. Prac.	Chem. Prac.
11.30-12.30	Biology Lecture	Chemistry Lecture	Biology Lecture	Chemistry Lecture	Chemistry Lecture	
2-3	Physics Lecture	Physics Lecture		Physics Lecture	Physics Lecture	

First Year—Spring

9-11	Phys. Prac.	Phys. Prac. 9.30-11.30	Biol. Prac.	Biol. Prac.	Chem. Prac.	Chem. Prac.
11.30-12.30	Biology Lecture	Chemistry Lecture	Biology Lecture	Chemistry Lecture		
2-3	Physics Lecture	Physics Lecture		Physics Lecture	Physics Lecture	
3-5		3.30-5 Tooth Carving y		3.30-5 Tooth Carving z		

First Professional Examination—Physics

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First Year—Summer

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9.30-10.30	Biology Lecture ¹			Biology Lecture ¹	
11-1	Chem. Pract.			Chem. Pract.	
2-3	Chemistry Lecture	Chemistry Lecture		Chemistry Lecture	

First Professional Examination—Chemistry and Biology.

Second Year—Autumn

9-10	Biochemistry Lecture	Biochemistry Lecture	Biochemistry ¹ Lecture	Physiology Lecture	Physiology Lecture
10-12	Anatomy Practical	Anatomy Practical	10.30-12 Physiology Demonstration	Anatomy Practical	Properties of Dental Materials Demonstration
12-1	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture
2-4	Phys. Pract. A	Anat. Pract. B	Biochemistry Practical	Phys. Pract. B	Anat. Pract. A
4-5	do.	do.	Dental ² Metallurgy Lecture	do.	do.
					Properties of Dental Materials Lecture

Second Year—Spring

9-10	Biochemistry Lecture	Biochemistry Lecture	Dental Metallurgy Lecture	Physiology Lecture	Physiology Lecture
10-12	Anatomy Practical	Anatomy Practical	10.30-12 Physiology Demonstration	Anatomy Practical	Properties of Dental Materials Demonstration
12-1	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture
2-4	Phys. Pract. A	Anat. Pract. B	Biochemistry Practical	Phys. Pract. B	Anat. Pract. A
4-5	do.	do.		do.	Dental Histology Practical
					Properties of Dental Materials Lecture

¹ During first five weeks of term.

² Provisional.

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Second Year—Summer

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Physiology Lecture	Physiology Lecture	Dental Mechanics Demonstration	Physiology Lecture	Physiology Lecture
10-11	Anatomy Tutorial	Neuro-Anatomy	10.30-12 Physiology Dem.	Anatomy Micro.	Anatomy Practical
11-12	Biochemistry Lecture	do.		do.	do.
12-1	Anatomy Regional	Anatomy Lecture	Anatomy Regional	Anatomy Lecture	Anatomy Regional
2-4	Anat. Pract. A	Phys. Pract. B	Anat. Pract. B	Anat. Pract. B	Phys. Pract. A
4-5	do.	do.		do.	do.

Second Professional Examination—Anatomy and Physiology (including Biochemistry).

Second Year—Summer Vacation. During July and September students will attend from 9 a.m. to 5 p.m. daily (9-1 on Wed. and Sat.) in the Mechanical Laboratory when they will commence their training in Practical Dental Mechanics. August will be the holiday month.

Third Year—Autumn

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-11	Dental Mechanics Pract. Demons. B C D A	Dental Mechanics Pract. Demons. A C D B	Dental Mech. Practical	Dental Mechanics Pract. Demons. A B D C	Dental Mechanics Pract. Demons. A B C D	Dental Mech. Practical
11-12	Dental Mechanics Practical	Dental Mechanics Practical	do.	Dental Mechanics Practical	Dental Mechanics Practical	do.
12-1	Dental Mechanics Lecture	do.	do.	Dental Mechanics Lecture	do.	do.
2-4	Dental Mechanics Pract. Demons. A B D C	Dental Mechanics Pract. Demons. A B C D		Dental Mechanics Pract. Demons. B C D A	Dental Mechanics Pract. Demons. A C D B	
4-5	Dental Mechanics Practical	Dental Anatomy Lecture		Dental Anatomy Lecture	Dental Mechanics Practical	

Third Professional Examination—Part I, Dental Metallurgy and the Properties of Dental Materials.

Third Year—Spring

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY
9-10	Operative Technique	Dental Mech. Pract. Dem. A C D B	Dental Mech. Pract. Dem. A B D C	Dental Mech. Pract. Dem. A B C D	Operative Dental Surgery Lecture	Dental Mech. Pract. Dem. B C D A
10-12	do.	Dental Mech. Practical	Dental Mech. Practical	Dental Mech. Practical	Operative Technique	Dental Mech. Practical
12-1	Dental Mech. Lecture	do.	do.	Dental Mech. Lecture	do.	do.
2-3	Dental Mech. Pract. Dem. B C D A	Dental Mech. Pract. Dem. A B C D		Dental Mech. Pract. Dem. A C D B	Dental Mech. Pract. Dem. A B D C	
3-4	Dental Mech. Practical	Dental Mech. Practical		Dental Mech. Practical	Dental Mech. Practical	
4-5	do.	Dental Anat. Lecture		do.	do.	

Third Professional Examination—Part II, Dental Anatomy and Histology.

Christmas and Easter Vacations.—Students will be required to attend Practical Dental Mechanics during both these vacations except for a period of ten days during each when the Mechanical Laboratory will be closed. The dates will be announced at the beginning of the winter session.

Third Year—Summer

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY
9-10	Bacteriology Lecture	Dental Mech. Pract. Dem. B C D A	Operative Technique	Operative Dental Surgery Lecture	Dental Mech. Pract. Dem. A B D C	Pathology Demon.
10-11	Operative Technique	Dental Mech. Practical	Dental Mech. Pract. Dem. A C D B	Bacteriology Lecture	Dental Mech. Practical	Dental Mech. Pract. Dem. A B C D
11-12	do.	do.	Dental Mech. Practical	11-12.30	do.	Dental Mech. Practical
12-1	do.	do.	do.	Bacteriology Demon.	do.	do.
2-3	Pathology Lecture	Pathology Lecture		Pathology Lecture	Dental Mech. Practical	
3-4	Operative Technique	Dental Mech. Practical		Pathology Practical	do.	
4-5	do.	do.		do.	do.	

Third Professional Examination—Part III, Dental Mechanics.

Third Year Summer Vacation and Subsequent Vacation Periods.—Commencing in the summer of the third year, students will require to attend Dental Hospital Practice during the vacation periods, except for 10 days' holiday at Christmas and at Easter, and 4 weeks in the summer.

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Fourth Year—Autumn

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY
9-11	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice
11-12	do.	Orthodontics Lecture	Pharmacology Practical	do.	Local Analgesia Lecture ¹	Pathology Demonstration
12-1	Bacteriology Lecture	Dental Prosthetics Lecture	do.		Bacteriology Lecture	
2-3	Pathology Lecture	Pathology Lecture		Pathology Lecture	Pharmacology Lecture	
3-4	Bacteriology Practical	Pharmacology Lecture		Pathology Practical	Bacteriology Practical	
4-5	do.			do.	do.	

¹ During first 5 weeks of term.

Fourth Professional Examination—Part I, Pathology and Bacteriology.

Fourth Year—Spring

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY
9-11	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice
11-12	Clinical Medicine	Clinical Medicine		Clinical Medicine	Oral Pathology Lecture	do.
12-1	do.	do.	Dental Prosthetics Lecture	do.		
2-3	Dental Hospital Practice			Dental Hospital Practice		
3-4	do.	Pharmacology Lecture		do.	Pharmacology Lecture	
4-5	Medicine Lecture	Medicine Lecture		Medicine Lecture		

Fourth Professional Examination—Part II, Pharmacology and Dental Therapeutics.

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Fourth Year—Summer

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-11	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice
11-12	Oral Pathology Lecture	Clinical Medicine	Periodontal Diseases Lecture	Clinical Medicine	do.	do.
12-1	Senior Operative Dental Surgery Lecture	do.	Radiology Lecture	do.	Radiology Lecture	
2-4	Radiol. Pract. A	Orthod. Pract. A	Senior Operat. Tech. C	Radiol. Pract. B	Orthod. Pract. C	Radiol. Pract. C Senior Operat. Tech. AB
4-5	Medicine Lecture	Medicine Lecture		Medicine Lecture	Periodontal Diseases Lecture	

Fourth Professional Examination—Part III, Junior Operative Dental Surgery and Radiology.

Fifth Year—Autumn

9-11	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice
11-12	11.30-12.30 Venereal Diseases ¹	Clinical Surgery	do.	Dis. of Ear, Nose and Throat ²	Clinical Surgery	do.
12-1		do.			do.	
2-3		Ethics, Economics and Jurisprudence ³		Senior Operative Dental Surgery Lecture	Senior Operative Technique	
3-4	Preventive and Social Dentistry Lecture	Dental Prosthetics Lecture		Preventive and Social Dentistry Lecture	do.	
4-5	Surgery Lecture ⁴	Surgery Lecture		Surgery Lecture		

Fifth Year—Spring

9-11	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice
11-12	Radiotherapy	Clinical Surgery	Radio-therapy	Dis. of Ear, Nose and Throat ²	Clinical Surgery	do.
12-1		do.			do.	
2-3	Dental Histopathology	Dental Prosthetics Lecture		Oral Pathology Lecture	Ethics, Economics and Jurisprudence	
3-4	do.	Preventive and Social Dentistry Lecture		Preventive and Social Dentistry Lecture	Orthodontics Lecture	
4-5	Surgery Lecture ⁴	Surgery Lecture		Surgery Lecture		

Final Professional Examination—Part I, Medicine and Surgery; Part II, Preventive Dentistry; Ethics, Economics and Jurisprudence.

¹ During first four weeks of term.

² During last four weeks of term.

³ Including lectures in maxillo-facial surgery and oral surgery. ⁴ Including lectures in general anaesthesia.

⁵ During last five weeks of term.

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Fifth Year—Summer

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY
9-10	Dental Hospital Practice (Oral Diagnosis)	Dental Hospital Practice	Dental Hospital Practice	Dental Hospital Practice (Oral Diagnosis)	Dental Hospital Practice	Dental Hospital Practice
10-1	Dental Hospital Practice	do.	do.	Dental Hospital Practice	do.	do. 10-12
2-3	Dental Hospital Practice	Oral Pathology Lecture		Dental Hospital Practice	Oral Pathology Lecture	
3-4	do.	Dental Hospital Practice (Oral Diagnosis)		do.	Dental Hospital Practice (Oral Diagnosis)	

Final Professional Examination Part III, (a) Dental Surgery and Pathology; (b) Senior Operative Dental and Oral Surgery, Extractions and Anæsthetics; (c) Dental Prosthetics; (d) Orthodontics.

Certificates of Attendance on Classes in the Faculty of Medicine

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner:—

Each Professor shall ascertain the presence of his pupils at least 26 times in a course of 6 months' duration, and 13 times in a course of 3 months' duration.

Those who have been absent on one-third or more of the occasions on which attendance has been ascertained, or have not duly performed the work of the class, including any examinations that may be held, shall not be entitled to any certificate.

The following is the form of certificate which must be adopted in all cases:—

"I certify that M..... attended my course of instruction on during the session; that was present on of the occasions on which attendance was ascertained; and that duly performed the work of the class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for 6 weeks or upwards in a course of 6 months, or for 3 weeks in a course of 3 months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty, for the decision of the Faculty.

Whenever the students' cause for absence shall be admitted by the Professor or by the Faculty, the certificate shall bear that he "attended," and shall state the amount of the irregularity and nature of the excuse.

Regulations Governing Validity of Class Certificates, Admission to Classes and Exclusion from further Attendance

First Year:—

(a) Class Certificates shall be valid for two opportunities of entering for the First Professional Examination within the academical year in which they are granted.

(b) A student who, at the end of the first year of study, has not passed in at least one subject of the First Professional Examination, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(c) A student who, at the end of the first year of study, has passed in at least one but not in all subjects of the First Professional Examination, shall be required to repeat in the following year the course(s) of instruction in the subject(s) in which he has failed.

(d) A student who has not completed the First Professional Examination at the end of one year additional to the regular period of study, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(e) In exceptional circumstances, and with the approval of the Senatus, the Faculty of Medicine may waive these regulations.

Second Year:—

1. Candidates must enter for the Second Professional Examination as a whole and must pass in the subjects of Anatomy and Physiology (including Biochemistry) at the same time.

2. Class Certificates shall normally be valid for four opportunities of entering for the Second Professional Examination.

3. No student shall be allowed to proceed to the Third Year if he has not passed the Second Professional Examination. In the case of a student who fails in the Second Professional Examination in September-October, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat classes in the subject or subjects in which he has failed.

4. In the case of a student who fails to obtain a class Certificate in Anatomy or in Physiology (including Biochemistry) or in Dental Histology or in Dental Metallurgy and the Properties of Dental Materials, the Faculty shall have power to recommend to the Senatus that he may not be re-admitted as a student in the Faculty.

5. A student who has not passed the Second Professional Examination within thirteen months of his first opportunity of appearance thereat, shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

Third Year:—

1. Class Certificates shall normally be valid for four opportunities of entering for the Third Professional Examination.

2. A student shall not be allowed to proceed to the Fourth Year if he has not passed Parts II and III of the Third Professional Examination, but a student may be allowed to proceed to the Fourth Year, if he has passed in Parts II and III and failed in Part I.

3. In the case of a student who fails in the Third Professional Examination (Part I) in March of the Third Year, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat the class in Dental Metallurgy and the Properties of Dental Materials.

Faculty of Medicine—Dental Surgery

In the case of a student who fails in the Third Professional Examination (Part II) in September of the Third Year, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat the class in Dental Anatomy and Histology.

In the case of a student who fails in the Third Professional Examination (Part III) in September of the Third Year, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat the class in Dental Mechanics.

4. In the case of a student who fails to obtain a Class Certificate in Dental Anatomy or in Dental Mechanics, the Faculty shall have power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

5. A student who has not passed the Third Professional Examination (Part I) within sixteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

A student who has not passed the Third Professional Examination (Part II) within nineteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

A student who has not passed the Third Professional Examination (Part III) within sixteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

Fourth Year:—

1. Class certificates shall normally be valid for four opportunities of entering for the Fourth Professional examination.

2. A student shall not be allowed to proceed to the fifth year if he has not passed Part I and Part III of the Fourth Professional Examination, but a student may be allowed to proceed to the fifth year if he has failed to pass in Part II only.

3. In the case of a student who fails in the Fourth Professional Examination (Part I) in June of the fourth year, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat the class in the subject in which he has failed.

In the case of a student who fails in the Fourth Professional Examination (Parts II and III) in September of the fourth year, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to receive further instruction in the subjects in which he has failed.

4. In the case of a student who fails to obtain class certificates in two or more of the subjects of the fourth year, the Faculty shall have power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

5. A student who has not passed the Fourth Professional Examination (Part I) within nineteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

A student who has not passed the Fourth Professional Examination (Parts II and III) within sixteen months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine, except by special permission of the Senatus on the recommendation of the Faculty.

Note.—In these regulations the phrase "first opportunity of appearance" at an examination refers to the first occasion of the examination following the course of study laid down in the curriculum.

Honours in Professional Examinations

Passes with Distinction.—Candidates who have attained a sufficiently high standard at any of the Professional Examinations will be announced as having passed that examination “with distinction”.

Honours at Graduation.—Candidates who have displayed special merit in the Professional Examinations over the whole course will be announced at the time of graduation as having obtained the degree with honours. Candidates qualified for Honours, who have at another University passed an examination which exempts them from the First or Second Professional Examination will in the arranging of the total marks be granted a pass mark in respect of that examination.

Merit Certificates and Class Medals

Students who obtain 70 per cent. or more of the total marks available in class examinations for the courses of B.D.S. may be awarded a Certificate of Merit in place of a Class Certificate.

The Class Medal may be awarded to the most outstanding student in any of the courses for the degree of B.D.S. Such an award will not be made in years in which there is no student of sufficient merit.

**Regulations to be observed by students attending
the Dental Hospital and School**

1. Every student must purchase a set of workroom tools and a cabinet and outfit of instruments as prescribed by the University Authorities.

2. Students are required to attend daily at 9 a.m. and at such other times as may be required.

3. Appointments with patients must be kept punctually.

4. All materials must be obtained from the departmental offices. Students are not permitted under any circumstances to receive any fee or remuneration from patients; nor must they undertake work of any kind in the Hospital for patients who are not registered as attending the Hospital.

5. No student shall undertake any prosthetic or operative procedure nor discharge a patient without the authority of a member of the Staff.

6. If an accident occurs to a student or patient in the Hospital, the Superintendent—or failing him the Head of a Department—must be informed immediately.

7. Before a certificate of satisfactory attendance in Dental Hospital Practice can be signed a student must have carried out a prescribed course of clinical work to the satisfaction of the Director of Dental Studies.

8. No student, unless he is a registered medical or dental practitioner, may undertake any professional work outside the Dental Hospital or other hospital recognised by the University for teaching purposes.

COURSES OF INSTRUCTION

THE STUDY OF MEDICINE

Lectures during the first fortnight of the autumn term on dates to be announced. 1. The Profession of Medicine. 2. The Rise and Development of the Edinburgh Medical School. 3. The Relation of Science to Medicine. 4. Medicine as an Instrument of Social Policy.

PRINCIPLES OF SCIENTIFIC METHOD

Lectures and demonstrations (as may be arranged) at times to be arranged. Aims and methods of science. Relation of science to Medicine. The design of experiments. Elements of statistical methods, with practical exercises.

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; DR. NEIL CAMPBELL,
Reader; and Lecturers

Inorganic, Physical and Organic Chemistry Lecture Course

Tues., Thurs. and Fri. at 11.30 in autumn; Tues. and Thurs. at 11.30 in spring; Mon., Tues. and Thurs. at 2 in summer. The syllabus includes:—The fundamentals of general chemistry; the periodic classification; atomic structure; the electronic theory of valency; radioactivity; systematic chemistry of the elements. Chemical equilibria; properties of electrolytes; the pH notation and applications; oxidation-reduction systems; catalysis and adsorption; the colloidal state. The principles of organic chemistry; molecular structure; structural formulae; radicals; isomerism; substitution and addition reactions; unsaturation; elements of stereo-chemistry. Chemistry of the main classes of aliphatic and aromatic compounds, and an introduction to the chemistry of the heterocyclic compounds.

Practical Course

Forty hours in each of the three terms. Instruction is given in simple laboratory technique; elementary physical chemistry; qualitative and quantitative inorganic chemistry; qualitative organic analysis; and the preparation of organic compounds.

Recommended books:—F. Prescott, *Intermediate Chemistry* (University Tutorial Press, 3rd ed., 1947); F. W. Goddard and E. J. F. James, *The Elements of Physical Chemistry* (Longmans, Green, 1952); J. Read, *Introduction to Organic Chemistry* (Bell, 1948); J. B. Conant and H. H. Blatt, *Fundamentals of Organic Chemistry* (Macmillan, 1950); William Klyne, *Practical Chemistry for Medical Students* (E. and S. Livingstone, 1946).

PHYSICS

Dr. DAINTY, Reader; Dr. WILLIAMS, Dr. JOHNSTON
and Dr. MALCOLM, Lecturers

Lecture Course

Mon., Tues., Thurs. and Fri. at 2 in autumn and spring.

This course, which presupposes some knowledge of physics, consists of mechanics, properties of matter, heat, sound, light, electricity, magnetism, X-rays and radioactivity. The aim of the course is to explain the fundamental principles of physics. Those principles are stressed which are of importance in understanding the processes occurring in living matter and illustrative examples from biology and medicine are given as far as possible. The physical instruments used in biological and medical research and practice are described and discussed.

Courses of Instruction (B.D.S.)

Practical Work and Tutorials

Four hours each week in the autumn and spring terms.

The practical work consists of the carrying out of about twenty experiments. Tutorial classes are held each week; their aim is to help the student to understand physical principles by applying these principles to solve numerical and other problems.

BIOLOGY

PROFESSOR SWANN; Dr. HALE and Lecturers

Lecture Course

Mon. and Wed. at 11.30 a.m. in autumn and spring, and ten lectures in summer at 9.30 a.m., Mon. and Thurs.

The course aims at being an introduction to the Science of Life. It deals in an elementary way with the physics and chemistry of protoplasm, the origin of life, the structure and activities of micro-organisms and of plant and animal cells, the problems of growth and development, the nature of inheritance, the organisation and functioning of a range of animals of increasing complexity, the differences between plants and animals, the idea of evolution and nervous systems and behaviour.

Practical Course

Dental students attend as follows: Wed. and Thurs. in autumn and spring, 9 to 11 a.m.

Observations on living animals, dissections, introduction to use of microscope, microscopical studies and demonstrations designed to illustrate the subjects discussed in the lecture course.

TOOTH CARVING

See Operative Technique.

ANATOMY

PROFESSOR ROMANES; and Lecturers

Human Anatomy

Systematic Lectures.—Dental students will attend the introductory lectures of the General Systematic Course during the autumn term, and a Special Course daily during the spring term and on Tuesdays and Thursdays during the summer term. Tutorial instruction will be arranged in sections as required.

Text-books:—Cunningham, *Text-book of Anatomy*; Le Gros Clark, *The Tissues of the Body*.

Practical Anatomy.—The order of dissection is axillary region, thorax, abdomen, head and neck, brain.

Text-book:—Cunningham, *Manual of Practical Anatomy*.

Regional Anatomy.—A series of demonstrations on head and neck and brain will be given in the summer term, including Special and Applied Anatomy for dental students.

Text-book:—Jamieson, *Illustrations of Regional Anatomy*, sections I and II.

Microscopic Anatomy.—This practical class will meet for a period of two hours once a week during the autumn and summer terms.

Text-book:—Hewer, *Histology for Medical Students*.

Radiographic Anatomy.—Introductory lectures and demonstrations in the X-ray laboratory will be given on the same lines as for medical students.

Faculty of Medicine—Dental Surgery

Dental Anatomy and Histology

Dr. KIMBALL, Senior Lecturer; Mr. PATERSON
and Mr. ADAMS, Lecturers

This Course in the autumn term of the third year deals with the morphology, the macroscopic and microscopic anatomy of the human dentition, the chemical and physical properties of the dental tissues, the development of the teeth including calcification and eruption, and the age-changes in the jaws and mandibular joint. In the following spring term, the applied anatomy of the jaws and surrounding parts, and the anatomy and physiology of mastication and deglutition are considered. The Course concludes with a review of the structure and function of the teeth and jaws of the Vertebrata with special reference to varying types of dentition (Comparative Dental Anatomy and Physiology).

The Practical Class in Dental Histology meets for a period of two hours once a week during the spring term of the second year. Special histological methods for dental tissues will be demonstrated, and the histology of dental tissues studied, including the development of the teeth.

Text-books:—Tomes, *A Manual of Dental Anatomy*; Scott and Symons, *Introduction to Dental Anatomy* (2nd ed.); Kronfeld, *Dental Histology and Comparative Dental Anatomy*.

PHYSIOLOGY

PROFESSOR WHITTERIDGE; and Lecturers

Lectures

The course consists of some 64 lectures, arranged to provide a consecutive account of the functional organisation of the body, with emphasis on those aspects of dental application. In the autumn term the application of the basic sciences to physiology is brought out in a survey of the systems of the body. The subjects treated during the remainder of the year include the fluids of the body; cellular physiology, including muscle and nerve; the circulation; digestion; respiration; metabolism and nutrition; the endocrine glands and reproduction; the kidney; the autonomic nervous system and the central nervous system.

Tutorials

During the summer term one hour a week is set aside for the discussion of essays on various physiological topics.

Practical Classes

Exercises on human and animal physiology are carried out weekly, illustrating and supplementing the lecture course.

Demonstrations

Demonstrations illustrating basic physiological phenomena are held on Wednesday mornings.

Text-books:—In the first term students are expected to read the whole of a short introductory survey such as Newton, *Introduction to Physiology*. Hereafter a medium-sized text such as Winton and Bayliss, *Human Physiology* or Bell, Davidson and Scarborough, *Textbook of Physiology and Biochemistry*, will probably be found most useful for general reading. For further reading, Houssay, *Human Physiology* is recommended.

BIOCHEMISTRY

PROFESSOR FISHER; Dr. GRANT, Senior Lecturer

Mon. and Tues. at 9 a.m. in autumn and spring; Wed. at 9 a.m. in autumn; Mon. at 11 a.m. in summer; practical work on Tues. from 2-4 in autumn and 2-5 in spring.

Courses of Instruction (B.D.S.)

Lecture Course

The syllabus includes:—1. Chemistry of carbohydrates, lipids, proteins, nucleic acids and other compounds of biological importance, leading to an account of the state in which these substances occur in the tissues and in food. 2. Enzyme systems. 3. Transport systems; maintenance of plasma pH; blood coagulation. 4. Nutritional requirements. 5. Biochemistry of digestion and absorption. 6. Intermediary metabolism of proteins, carbohydrates, lipids and other compounds of biological importance. 7. Biochemistry of hormones and of nervous tissue.

Special lectures will be devoted to the composition of, and metabolic changes occurring in, oral tissues and saliva.

Practical Course

The earlier part of the practical course includes experiments to illustrate the properties of naturally occurring substances of biological importance including enzymes. The properties of saliva and the component substances of teeth are investigated. Biochemical aspects of nutrition, the carriage of gases in the blood, coagulation of the blood, calcification and gastric, liver and renal function are illustrated by experiments and demonstrations.

Text-books:—Bell, Davidson and Scarborough, *Textbook of Physiology and Biochemistry*; Jenkins, *The Physiology of the Mouth*.

DENTAL METALLURGY AND PROPERTIES OF DENTAL MATERIALS

Mr. WATT, Senior Lecturer; Dr. HOWIE and Mr. GEDDES, Lecturers

A course of 40 lectures on Wed. at 9 a.m. and Fri. at 4 p.m. extends over the autumn and spring terms of the second year. Demonstrations are given on Fridays at 10 a.m. during the course. The syllabus is divided into two parts, the first part consisting of an elementary course in metallurgy with special emphasis on the properties and uses of the metals and alloys used in dentistry and the effects of alloying, heat treatment and manipulation, and the second part dealing with the properties and uses of non-metallic materials with special references to those materials used in prosthetic dentistry.

Text-books:—Skinner, *The Science of Dental Materials* (4th ed.); John N. Anderson, *Applied Dental Materials* (Blackwell); Skinner and Taylor, *Dental Materials, Laboratory Manual* (Northwestern University), (5th ed.).

DENTAL MECHANICS

Mr. WATT, Senior Lecturer; Mr. GEDDES and Mr. MACGREGOR, Lecturers
Lectures

Second Year.—Wed. at 9 in summer. An introductory course, with special reference to dental laboratory methods, and the use and maintenance of tools and equipment.

Third Year.—Mon. and Thurs. at 12 in autumn and spring. A course of 40 lectures. The syllabus includes the study of the relationships between mandibular movements and the form and arrangement of artificial teeth; the principles of complete and partial denture design and construction; splints, crowns and bridges; obturators and other prosthetic appliances.

Demonstrations

Second Year.—Demonstrations will be given as required during the introductory course in summer, and also in July and September.

Third Year.—Each section of the class will attend two demonstrations weekly in autumn and spring terms and one each week in the summer term. These will deal with the practical work which the student is expected to complete during the course. Demonstrations will also be given in the prosthetic clinic of the Dental Hospital.

Faculty of Medicine—Dental Surgery

Practical

Third Year.—Each student is required to make and submit a number of items of practical work according to a specified schedule. This work must be of a sufficiently high standard in order that the student may qualify for a Class Certificate.

Text-books:—Osborne, *Dental Mechanics for Students*; Wilson, *Partial Dentures—A Manual for Students and Practitioners of Dentistry* (1st ed.) (Angus and Robertson, Sydney); Lammie, *Full Dentures*.

OPERATIVE TECHNIQUE

Mr. BAXENDINE, Senior Lecturer; Dr. WATERSTON, Mr. CHAPMAN
and Mr. MCGIBBON, Lecturers

Junior Course

First Year.—A course in tooth carving and modelling is held on Tues. and Thurs. from 3.30 p.m. to 5 p.m. during the spring term. The course is designed to assist the student in the study of morphology of the human dentition by practical application and as an introduction to Dental Anatomy and Operative Technique.

Third Year.—Spring term—Mon. at 9 a.m., Fri. at 10 a.m.; summer term—Mon. at 10 a.m. and 3 p.m., Wed. at 9 a.m.

This course deals with the general principles of clinical practice and includes:—study of tooth morphology; sectioning of natural teeth; the use of instruments; preparation of cavities in plaster teeth and in natural teeth mounted on a phantom head; manipulation of the different types of filling materials used in conservation dentistry; root canal technique; oral prophylaxis. Demonstrations are given throughout the course.

At the end of the course each student will be required to pass a class examination (written and practical) before being allowed to proceed to the clinical departments in the Dental Hospital.

Senior Course

This course extends over the summer term of the fourth year and the autumn term of the fifth year. Twenty hours are devoted to practical work in each term.

The work of the class covers the various procedures connected with the restoration of teeth by cohesive gold fillings; advanced inlay technique; the construction of crowns and bridges; porcelain restorations. Demonstrations are given throughout the course.

OPERATIVE DENTAL SURGERY

Mr. BAXENDINE, Senior Lecturer; Dr. WATERSTON, Mr. CHAPMAN
and Mr. MCGIBBON, Lecturers

Junior Lecture Course

Fri. at 9 a.m. in the spring term and Thurs. at 9 a.m. in the summer term of the third year.

The course deals with the treatment of carious teeth; the symptoms, diagnosis and treatment of pathological conditions of the dental pulp and periodontal tissues; oral hygiene; the use of the various drugs and materials employed in operative dental surgery; juvenile dentistry.

Text-books:—Gabel, *American Textbook of Operative Dentistry*; McBride, *Juvenile Dentistry*.

Courses of Instruction (B.D.S.)

Senior Lecture Course

Twenty lectures are given during the summer term of the fourth year and the autumn term of the fifth year. This course deals with the following subjects:—The principles and technique of cohesive gold restorations; the design and construction of various types of metal inlays, crowns and bridges; treatment of vital and non-vital dental pulps; root resection; treatment of traumatic injuries to teeth; effects of operative procedures on the dental tissues; the use of ceramics and acrylic resins in conservative dentistry; treatment of discoloured teeth.

Text-books:—Tylman, *Crown and Bridge Prosthesis*; Grossman, *Root Canal Therapy*; Ellis, *Injuries to the Teeth of Children*.

PATHOLOGY

PROFESSOR MONTGOMERY; and Dr. JAMES DAVIDSON, Senior Lecturer

Lectures, demonstrations and practical classes are co-ordinated so as to present a comprehensive view of disease processes. The general principles are dealt with—of inflammation and repair; degeneration and vascular disturbances; tumour growth; endocrine disturbances; deficiency diseases. Diseases of the various systems are considered insofar as is necessary for dental students.

Text-book:—Montgomery, *Pathology for Students of Dentistry*.

BACTERIOLOGY

PROFESSOR CRUICKSHANK and Lecturers

The course deals with the fundamental and biological aspects of Bacteriology and Immunology, and with the special applications of these subjects to Dental practice and science. It comprises both systematic lectures and practical work correlating with the lectures.

PHARMACOLOGY AND DENTAL THERAPEUTICS

PROFESSOR PERRY; Mr. STEPHENSON and
Mr. BEAGRIE, Lecturers

Instruction in pharmacology and dental therapeutics is given during the autumn and spring terms at the beginning of the fourth year of the curriculum. The course includes lectures on the actions, uses and toxic effects of drugs, methods of administration, and prescription writing. There is also a course of practical exercises in the autumn term.

DENTAL PROSTHETICS

Mr. WATT, Senior Lecturer; Mr. GEDDES and Mr. MACGREGOR, Lecturers

Junior Lecture Course

The course of twenty lectures on Tues. at 12 during autumn and Wed. at 12 in spring of the fourth year, is arranged to provide instruction on treatment planning, the preparation of the mouth and the clinical aspects of full and partial denture construction.

Text-book:—Fenn, Liddelow and Gimson, *Clinical Dental Prosthetics* (Staples).

Faculty of Medicine—Dental Surgery

Senior Lecture Course

This course of twenty lectures on Tues. at 3 p.m. in autumn and at 2 p.m. in spring in the fifth year, is arranged to provide instruction on the following:—Surgical preparation of denture-bearing areas of the mouth; diagnosis, treatment and prognosis of denture complaints; temporo-mandibular joint syndrome; bite analysis and correction; the treatment of abnormal and complicated cases; maxillo-facial injuries—splints and prosthetic appliances; cleft palate prosthesis and other advanced prosthetic technique.

Text-books:—Fenn, Liddelow and Gimson, *Clinical Dental Prosthetics* (Staples); Swensen, *Complete Dentures* (2nd ed.) (Kimpton).

LOCAL ANALGESIA

Mr. DUVALL, Lecturer

A course of five lectures, on Fri. at 11, during the first five weeks of the autumn term:—Applied anatomy, anæsthetic solutions. Instruments. Sterilisation. Preparation of patient. Indications and contra-indications for the use of local analgesia, methods of administration, difficult cases, complications and their treatment.

MEDICINE

PROFESSOR DONALD and Lecturers; and Physicians to Leith and Eastern General Hospitals

Systematic Lectures.—These are given three times a week in spring and summer. A wide general survey of systematic medicine is carried out, with particular emphasis on disorders with more direct dental bearing, *e.g.* disorders of digestion, nutrition, metabolism, focal sepsis and the bleeding diseases.

Clinical Medicine.—The course in clinical medicine comprises about 80 hours of instruction spread over the spring and summer terms of the fourth year. The work consists of tutorials, clinical demonstrations, and the examination of patients. The emphasis is laid on history-taking and the recognition and interpretation of visual signs of disease. In addition the standard methods of systematic examination are demonstrated.

Text-book:—Davidson, *The Principles and Practice of Medicine*.

DENTAL SURGERY AND PATHOLOGY (ORAL PATHOLOGY)

PROFESSOR BOYES; and Mr. BRADSHAW, Lecturer

Junior Lecture Course

Fri. at 11 in spring term and Mon. at 11 in summer term of fourth year.

The course is devoted to the eruption of the deciduous and permanent dentitions; anomalies in number, size and form of the teeth; abnormalities in structure, attrition, abrasion and erosion; the effect on the tooth of operative procedures; dental caries; reparative and degenerative processes in the dentine and pulp; inflammation, necrosis and gangrene of the pulp; acute and chronic local periodontitis; saliva; calculus; stains on the teeth.

Senior Lecture Course

Thurs. at 2 in spring, and Tues. and Fri. at 2 in summer of fifth year.

The course is devoted to the effects of endocrine disorders in the development of the teeth; the effect of nutritional deficiencies on the teeth and jaws; osteodystrophies involving the jaws; traumatic occlusion; injuries to the teeth; resorption of the teeth; periodontal disease; stomatitis; chronic oral sepsis in relation to systemic disease; inflammation of the maxillary sinus; osteomyelitis and necrosis of the jaws; lesions of the mandibular joint; neuralgia; cysts; odontomes; tumours.

Courses of Instruction (B.D.S.)

Dental Histopathology.—A practical course, on Mon. at 2 in spring of fifth year.

Text-books:—Stones, *Oral and Dental Diseases*; Fish, *Surgical Pathology of the Mouth*.

DENTAL RADIOLOGY

PROFESSOR BOYES; DR. MURISON, Senior Lecturer; and
Mr. BRADSHAW, Lecturer

Wed. and Fri. at 12 in summer of fourth year.

The course includes:—(a) X-ray physics—atomic structure; magnetism; phenomena associated with flow of electricity; measuring instruments; generation and properties of X-rays; measurement of X-rays; X-ray protection. (b) Radiographic technique. (c) Radiographic anatomy. (d) Interpretation. (e) Clinical instruction—each student will require to take a minimum of 30 radiographs.

Text-books:—Robertson, *Radiology Physics*; Hutchinson, *Dental and Oral X-Ray Diagnosis*.

ORTHODONTICS

Mr. HOPKIN, Senior Lecturer; Mr. DIXON, Lecturer

Junior Course

Tues. at 11 in autumn of fourth year.

Lectures.—The study of development and growth of the jaws and formation and eruption of the teeth necessary to produce normal dentition. Factors which may influence these processes with resultant production of irregularities of teeth or jaws. Diagnosis and classification of malocclusion.

Practical.—Construction of simple types of fixed and removable appliances.

Senior Course

Fri. at 3 in spring of fifth year.

The consideration of known etiological factors as affecting diagnosis, classification and prognosis. Preventive and remedial treatment. Principles involved in mechanical treatment and properties of available materials. Design of fixed and removable appliances. Dangers of orthodontic treatment; the place of orthodontics in general practice.

Text-book:—White, Leighton and Gardiner, *Orthodontics for Dental Students*; C. P. Adams, *Removable Orthodontic Appliances*.

SURGERY

PROFESSOR JOHN BRUCE; and Lecturers

Systematic Lectures.—These are given three times a week throughout the autumn and spring terms. A wide field of general surgery is covered with special emphasis on principles, the oral manifestations of surgical diseases and the regional surgery of the head and neck. Lectures on plastic and maxillo-facial surgery are included.

Clinical Surgery.—The course comprises about 80 hours of instruction running concurrently with the systematic lectures. The greater part of this time is spent in the wards and Out-Patient Department of the Royal Infirmary where stress is laid on clinical diagnosis and minor surgical procedures are demonstrated. Instruction is also given in the Plastic Surgery Unit at Bangour Hospital.

Text-book:—Illingworth, *Short Textbook of Surgery*.

Faculty of Medicine—Dental Surgery

General Anæsthesia

Dr. JOHN GILLIES, Reader

A series of lectures on Anæsthetics is given to dental students in the spring term as part of the Systematic Surgical course. Practical instruction in general anæsthesia and local analgesia is provided in the Dental Hospital.

VENEREAL DISEASES

Dr. ROBERT LEES, Lecturer

Two clinical demonstrations given in autumn of fifth year.

The course deals with venereal diseases in relation to dentistry and includes the examination of patients showing the conditions discussed. Attention is directed specially to the oral signs of these diseases.

DISEASES OF THE EAR, NOSE AND THROAT

Dr. SIMSON HALL, and Dr. J. P. STEWART, Surgeons-in-charge to the Royal Infirmary Ear, Nose and Throat Department; Dr. A. B. SMITH, Dr. R. B. LUMSDEN, Dr. I. M. FARQUHARSON, and Dr. G. D. MCDOWALL, Surgeons to the Royal Infirmary Ear, Nose and Throat Department.

Thurs. from 11 to 12 during the last four weeks of each of the autumn and spring terms.

A course of lecture demonstrations is given on the diseases of the nose, nasal accessory sinuses, pharynx and ear, including demonstrations of X-rays, lantern slides, etc. Emphasis is placed in this course upon those conditions which are likely to be of practical value in dental surgery, though a general survey of the relationship of other parts less closely related is also given.

RADIOTHERAPY

PROFESSOR MCWHIRTER

Mon. and Wed. at 11 in the spring term of the fifth year.

Lectures.—The effects produced by ionising radiations on living tissues. Recognition, mode of spread and treatment of malignant disease in the mouth and pharynx. The care of patients during and subsequent to radiotherapy.

Practical.—Clinical demonstration of patients with malignant disease of the mouth and pharynx.

PREVENTIVE AND SOCIAL DENTISTRY

**PROFESSOR BROTHERSTON; Dr. J. N. MANSBRIDGE, Senior Lecturer,
and Mr. S. A. SKLAROFF, Lecturer**

Mon. and Thurs. at 3 in autumn and Tues. and Thurs. at 3 in the spring term of the fifth year.

The course embraces:—The theories of causation of dental diseases; racial differences in dental disease; diet in relation to oral disease; review of research findings regarding the ætiology and incidence of dental disease; evaluation of present therapy and preventive measures; the principles of Social Medicine; legislation, the Public Health Service, their functions and organisation; socio-economic factors in health and disease; vital statistics and an introduction to statistical methods; principles of Health Education.

ETHICS, ECONOMICS AND JURISPRUDENCE

PROFESSOR DOUGLAS KERR and Lecturers

Tues. at 2 during last five weeks of the autumn term and Fri. at 2 in the spring term.

The course includes the investigation of sudden and unexpected deaths; the identification of the living and of the dead with special reference to the value of dental evidence in establishing (a) general identity and (b) individual identity; dangerous drugs Acts and regulations as they affect dentistry; the medical and dental Acts; professional conduct, ethics and discipline; practice management.

ORAL SURGERY

Dr. W. D. MACLENNAN, Lecturer

Lectures will be given during the autumn term.

The course includes: principles of oral surgery; extraction of teeth; oral surgery for dental prostheses and orthodontics; oral infections; cystic conditions of the oral cavity; neoplasms—simple and malignant; congenital, developmental and acquired anomalies of the face; temporo-mandibular joint conditions; lesions of the salivary glands; oral surgery complications; nerve lesions.

PERIODONTAL DISEASES

Mr BEAGRIE, Lecturer

Wed. at 11 and Fri. at 4 in the summer term of the fourth year.

The course embraces: oral hygiene; the pathology of the supporting structures of the teeth; the classification, ætiology, signs, symptoms of gingivitis, stomatitis, periodontitis, periodontosis, atrophy and hyperplasia of the gingiva; oral manifestations of systemic disorders; the detection and correction of trauma of occlusion.

DENTAL HOSPITAL PRACTICE

Dental Hospital Practice is available throughout the year and students attend as required.

TIME-TABLE OF WRITTEN EXAMINATIONS FOR THE DEGREE OF B.D.S.

Dates and times of examination are subject to revision. Due notice will be given on the notice-boards of the dates of oral, practical and clinical examinations, some of which may take place before the written examinations.

	Sept. 1959	Nov.-Dec. 1959	March 1960	June 1960	Sept. 1960
Chemistry	17	2-4.30			
Physics	19	10-12			
Biology	17	10-12			
Anatomy	19	9-12			
Physiology	18	9-12			
Biochemistry	18	2-4			
Dental Metallurgy and the Properties of Dental Materials		Dec. 4			
Dental Anatomy and Histology	17	9-12			
Dental Mechanics	22	10-12			
Pathology and Bacteriology		16			
Pharmacology and Dental Therapeutics	16	10-12			
Junior Operative Dental Surgery and Radiology	16	2-4			
Medicine					
Surgery					
Preventive and Social Dentistry					
Ethics, Economics and Jurisprudence					
Dental Surgery and Pathology		Nov. 16			
Dental Prosthetics		16			
Senior Operative Dental and Oral Surgery, Extractions and Anesthetics		17			
Orthodontics		17			

FACULTY OF MEDICINE
PROGRAMME

VETERINARY MEDICINE AND
SURGERY

Dean of the Faculty of Medicine: PROFESSOR J. H. F. BROTHERSTON
Director of the Veterinary School: PROFESSOR A. ROBERTSON

TABLE OF COURSES

Terms:—Autumn—Oct. 13 to Dec. 18, 1959
Spring—Jan. 12 to March 18 1960
Summer—April 19 to June 24, 1960

General

Courses	Day of Opening	Hour	Professors and Lecturers
GERMAN TUTORIAL COURSE (<i>Minto House</i> : 3 terms)	Oct. 15	5	Dr. Furness
THE NATURE OF KNOWLEDGE (<i>Old College</i>)	..	..	Dr. Broadie

Degree of B.V.M. & S.

CHEMISTRY (<i>King's Buildings</i>)						
Lectures (3 terms)	.	.	.	Oct. 15	11.30	} Prof. Hirst, Prof. Cottrell and Lecturers
Practical (3 terms)	.	.	.	Oct.	9	
PHYSICS (<i>Drummond Street</i>)						
Lectures (autumn and spring)	.	.	.	Oct. 13	2	} Dr. Dainty
Practical (autumn and spring)	.	.	.	Oct. 19	9	
BIOLOGY (<i>King's Buildings</i>)						
Lectures (3 terms)	.	.	.	Oct. 14	11.30	} Prof. Swann and Lecturers
Practical (2 terms)	.	.	.	Oct.	9-11	
ANIMAL MANAGEMENT (<i>Veterinary School and Field Station</i> : 4 terms)				.	Oct. 15	3.30 { Prof. Robertson and Lecturers
ANATOMY (<i>Veterinary School</i>)						
Lectures (4 terms)	.	.	.	Oct. 14	12	} Mr. Grahame and Lecturers
Practical (4 terms)	.	.	.	Oct. 15	10	
Demonstrations (4 terms)	.	.	.	Oct. 15	12	
Applied Anatomy (4 terms)	.	.	.	Apr.	3	
HISTOLOGY AND EMBRYOLOGY (<i>Veterinary School</i>)						
Lectures (summer and spring)	.	.	.	Apr. 19	2	}
Practical (4 terms)	.	.	.	Jan. 14	2	
PHYSIOLOGY (<i>Veterinary School</i>)						
Lectures (4 terms)	.	.	.	Oct. 13	9	} Prof. Whitteridge
Practical (3 terms)	.	.	.	Oct. 16	3	
Demonstrations (4 terms)	.	.	.	Jan. 12	3.30	
BIOCHEMISTRY (<i>New Buildings</i>)						
Lectures (4 terms)	.	.	.	Oct. 15	9	} Prof. Fisher and Lecturers
Practical (spring and summer)	.	.	.	Jan. 18	2	
PHARMACOLOGY (<i>Veterinary School</i>)						
Lectures (3 terms)	.	.	.	Oct. 16	2	} Dr. Alexander
Practical (spring)	.	.	.	Jan. 14	3	
PHARMACY (summer)				.	Apr. 22	3
PATHOLOGY (<i>Veterinary School</i> : 3 terms)						
Lectures	.	.	.	Apr. 19	9	} Mr. Beattie and Lecturers
Practical	.	.	.	Apr. 21	10	
BACTERIOLOGY (<i>New Buildings and Veterinary School</i> : 3 terms)						
Lectures	.	.	.	Apr. 19	10	} Prof. Cruickshank and Lecturers
Practical	.	.	.	Apr. 19	11	

Faculty of Medicine—Veterinary Medicine and Surgery

Degree of B.V.M. & S. (continued)

Courses	Day of Opening	Hour	Professors and Lecturers
PARASITOLOGY (<i>King's Buildings</i> : 3 terms)			
Lectures	Apr. 19	2	} Prof. Swann and Lecturers
Practical	Apr. 19	3	
GENETICS (autumn)	Oct. 13	2	Sir A. Buchanan-Smith
HYGIENE AND PREVENTIVE MEDICINE (INCLUDING STATE MEDICINE) (<i>Veterinary School</i>)			
Lectures (4 terms)	Oct.	9	} Prof. Robertson and Lecturers
Practical (3 terms)	Jan.	10	
Tutorials (spring)	Jan.	2	
Demonstrations (Field Station: 3 terms)	Oct.	9	
Meat Inspection (Gorgie: 3 terms)	Apr.	2.30	
MEDICINE (<i>Veterinary School</i> : 6 terms)	Oct.	12	} Prof. Boddie and Lecturers
CLINICAL LABORATORY (<i>Veterinary School</i> : summer)	Apr.	3	
SURGERY (<i>Veterinary School</i> : 6 terms)	Oct.	2	Prof. Spreull and Lecturers
CLINICAL SURGERY AND MEDICINE (<i>Veterinary School</i> : 6 terms)	Oct.	10	} Prof. Spreull, Prof. Boddie and Lecturers
OBSTETRICS (<i>Veterinary School</i>)			
Lectures (summer and autumn)	Apr.	2	} Prof. Spreull and Lecturers
Tutorials (summer and spring)	Apr.	3	
JURISPRUDENCE (<i>Veterinary School</i> : autumn and spring)	Oct.	9	Mr. Mackenzie Stuart

INTRODUCTION

Director of Studies

The Director of Studies is Professor A. Robertson, Royal (Dick) School of Veterinary Studies, Summerhall, Edinburgh 9. All communications requiring an answer should be accompanied by a stamped addressed envelope.

Admission to the Faculty of Medicine

For the regulations governing admission to the Faculty of Medicine and exemption from the first year of the B.V.M. & S. curriculum, see Programme of Admission, pp. 5-6.

German Tutorial Course

DR. FURNESS

Mon. and Thurs. at 5 during the three terms. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th ed.).

The Nature of Knowledge

DR. BROADIE

About twelve lectures at times to be arranged to suit students of different Faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (O.U.P.).

This course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations." Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.*

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degree of B.V.M. & S. is £60.¹ The fee for presentation and examination of the D.V.M. & S. thesis is £25. The fee for each Diploma is £55. Candidates taking the D.T.V.M. Part I only pay £30.

All diploma candidates on acceptance pay a deposit of £5 on account of tuition fees payable on enrolment. This sum is forfeited in the case of withdrawal later than 31st August (D.V.S.M.) and 31st October (D.T.V.M.).

A fee of £3 is payable in respect of late payment of the annual and diplomas fees.

The single-class fee for tuition for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class, and £10 for a three-term class, but the fee for a two- or three-term class which meets on fewer

¹ Candidates who, under Section X of the Regulations (p. 235), are exempted from the first and second divisions of the Professional Examinations are required, after passing the final division, to pay the fee for the First and Second Professional Examinations (amounting to £10, 10s. and £8, 8s. respectively) before they can be admitted to the B.V.M. & S. degree.

Faculty of Medicine—Veterinary Medicine and Surgery

than thirty occasions is £5. A practical class counts as a separate class, but when taken in conjunction with the theoretical course in the same subject, the combined fee for the lecture and practical class is £7, 10s., £12 and £15 for classes of one, two or three terms respectively. Non-graduating students taking more than one class are required to pay the annual fee.

Laboratory deposits, refunded at the end of the respective course, less a deduction for breakages, are exible in the following practical classes:—Chemistry £3; Biochemistry £1, 10s.

The fee for re-examination in the subjects of the B.V.M. & S degree is £1, 10s. per subject. The re-examination fee for the D.V.M. & S. degree is £6 per section. The re-examination fee for the D.V.S.M., D.T.V.M. Part I, and D.T.V.M. Part II is £3.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November and after, at the Matriculation Office, Old College from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon, Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree and diploma students are required to submit the following documents, duly completed:—

Matriculation Form A

Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)

Form of Account for fees (where these are payable by local authority or other public body)

Permit to Matriculate

X-ray Certificate

Carnegie Trust Coupon (if any).

Matriculation Forms and the form of account for fees are available at the place of enrolment.

Non-graduating students are required to submit the documents detailed above along with particulars of the classes to be attended.

Non-matriculated students paying an entrance fee of £1 and taking classes marked with an asterisk on the table of courses require to submit

Entrance Form C

Enrolment Form

X-Ray Card.

Students who require evidence of enrolment in order to obtain payment of their grants from local authorities, should apply in person for an appropriate certificate

Enrolment for Degree and Diploma Examinations

Candidates for degree and diploma examinations must be matriculated for the academic year in which the examination falls. They must enter for each examination at which they wish to appear and must state the subject or subjects on which they wish to be examined. On entering for examination they must present their matriculation card at the Matriculation Office. Candidates for the B.V.M. & S. degree must also (at a later date, see below) show their class certificates at the Royal (Dick) School of Veterinary Studies.

Entries for Professional examinations are received at the Matriculation Office, The Old College, from 10 to 12.30 and 2-4 during term and from 10-12.30 during the vacation, except Saturdays, on the following dates:—

B.V.M. & S.:

September-December 1959 examinations

First Professional	21st Aug. 1959
Third Professional (Parts I and II)	1st Sept. 1959
Final Professional (Part I)	28th Aug. 1959
Final Professional (Part III)	12th Oct. 1959
Final Professional (Part II)	28th Aug. 1959

March 1960 examinations

First Professional	16th Feb. 1960
Second Professional	25th Feb. 1960
Third Professional (Part II)	17th Feb. 1960
Final Professional (Parts I and II)	17th Feb. 1960

June-July 1960 examinations

First Professional	26th May 1960
Second Professional	27th May 1960
Third Professional (Parts I and II)	25th May 1960
Final Professional (Parts I, II and III)	25th May 1960

September 1960 examinations

First Professional	16th Aug. 1960
Third Professional (Parts I and II)	30th Aug. 1960
Final Professional (Parts I and II)	26th Aug. 1960

D.V.M. & S.:

December graduation	by 1st Oct. 1959
Summer graduation	by 1st April 1960

D.T.V.M.:

Part I	17th Feb. 1960
Parts I and II	9th May 1960
Part II	16th Aug. 1960

D.V.S.M.:

June examination	9th May 1960
September examination	16th Aug. 1960

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late

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entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry.

If a degree or diploma candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown, be allowed to appear at a subsequent diet without the payment of the re-examination fee. If a candidate appears for part of an examination but, without giving notice, does not appear for another part, for which he had entered, he will be held to have failed in the part for which he did not appear. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate form, to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh."

Production of Class Certificates

Class certificates and examination cards must be shown at the Administrative Office, Royal (Dick) School of Veterinary Studies, at the times stated below. The examination cards, when stamped with the words, "Certificates examined," constitutes the candidate's card of admission to the examination.

September-December 1959 examinations

First Professional	16th Sept. (10-12)
Third Professional (Parts I and II)	21st Sept. (10-12)
Final Professional (Parts I and II)	21st Sept. (10-12)
Final Professional (Part III)	2nd Dec. (10-1, 2-4)

March 1960 examinations

First Professional	14th Mar. (10-1)
Second Professional	11th Mar. (10-1)
Third Professional (Part II)	9th Mar. (2-4)
Final Professional (Part I)	1st Mar. (2-4)
Final Professional (Part II)	9th Mar. (10-12)

June 1960 examinations

First Professional	22nd June (2-4)
Second Professional	9th June (10-12)
Third Professional (Parts I and II)	18th June (10-12)
Final Professional (Part I)	15th June (10-12)
Final Professional (Part II)	11th June (10-12)
Final Professional (Part III)	22nd June (10-12)

September 1960 examinations

First Professional	14th Sept. (10-12)
Third Professional (Parts I and II)	19th Sept. (10-12)
Final Professional (Parts I and II)	26th Sept. (10-12)

GRADUATION

Registration and Entry

Every student, who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, and must pay £1 for registration as a member of the General Council, if he is

not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards and current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Men graduands for the degrees of B.V.M. & S. and D.V.M. & S. are requested to appear in black or dark coloured clothes, white starched collars, and white bow neck-ties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown worn for the degree of B.V.M. & S. is one of black silk or stuff with long sleeves. For the academic dress for other degrees see University Calendar "Academic Calendar." The hoods are as follows:—B.V.M. & S., black silk lined with maroon silk bordered with golden yellow three inches broad, edged with white fur; D.V.M. & S., black silk lined with maroon silk bordered with golden yellow three inches broad. There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation in Veterinary Medicine and Surgery

"Whereas the privilege of a Degree in Veterinary Medicine and Surgery is now to be conferred upon me I promise that I will to my latest breath abide steadfast in all due loyalty to the University of Edinburgh."

REGULATIONS FOR THE DEGREES OF B.V.M. & S. AND D.V.M. & S.¹

I. The degrees of Bachelor of Veterinary Medicine and Surgery (B.V.M. & S.) and Doctor of Veterinary Medicine and Surgery (D.V.M. & S.) in the Faculty of Medicine may be conferred by the University of Edinburgh.

Degree of Bachelor of Veterinary Medicine and Surgery

II. Regulations for graduation in Veterinary Medicine and Surgery shall from time to time be prescribed by the Senatus Academicus with the approval of the University Court, and these regulations shall be administered by the Faculty of Medicine through a Board of Veterinary Studies instituted by the Senatus Academicus under this Ordinance.

Preliminary Qualifications

See Programme of Admission, pp. 3-4.

IV. The course of study for the degree of Bachelor of Veterinary Medicine and Surgery shall extend over not less than five academical years.

V.—(1) Candidates for the degree of Bachelor of Veterinary Medicine and Surgery must, during the curriculum, have attended a course or courses of instruction in each of the following subjects of study extending over not less than the number of terms specified in each case and including such class examinations as may be prescribed in connection with the several courses, namely:—

Chemistry	3 terms
Physics	2 terms
Biology	3 terms
Veterinary Anatomy, including Histology and Embryology	5 terms
Veterinary Physiology, including Biochemistry	4 terms
Animal Management	2 terms
Veterinary Bacteriology	3 terms
Veterinary Pathology	3 terms
Veterinary Parasitology	3 terms
Veterinary Pharmacology	2 terms
Veterinary Medicine	6 terms
Veterinary Surgery	6 terms
Veterinary Obstetrics	2 terms
Veterinary Hygiene and Preventive Medicine	3 terms

(2) Instruction in certain of the subjects of study may be given in whole or in part at a Veterinary Field Station, Animal Hospital, or other Institution for clinical instruction recognised for this purpose by the University Court, and the candidate may be required to attend such Field Station, Animal Hospital, or Institution, and to reside thereat, for such periods of time as the Senatus, with the approval of the University Court, may determine.

VI.—(1) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Veterinary Studies, to determine from time to time the number of meetings of which each course of instruction specified in Section V hereof shall consist, the cases in which two half-courses shall be deemed equivalent to a full course and the cases in which the subjects of any course or courses may be sub-divided or combined for purposes of study.

¹ University Court Ordinance, No. 92. This Ordinance was approved on 10th March 1952 and came into effect on 1st October 1952. See Section XXIV (p. 238), regarding the repeal of University Court Ordinance No. 38 (Institution of Degrees in Veterinary Science . . .). The degree of Bachelor of Veterinary Medicine and Surgery is recognised as a registrable qualification carrying the right of membership of the Royal College of Veterinary Surgeons.

B.V.M. & S. and D.V.M. & S. Regulations

(2) It shall be the duty of each of the Professors, Lecturers and Instructors to submit to the Board of Veterinary Studies annually before the beginning of the second term of the academical year a syllabus and a scheme specifying what proportion of his course or courses shall be devoted to lectures, practical work, examinations and tutorial instruction respectively. The Board of Veterinary Studies shall transmit the syllabuses and schemes to the Faculty of Medicine, who shall submit them to the Senatus, with such observations as they may think fit to make thereon. The Senatus shall thereafter transmit them, with such observations as they may think fit to make thereon, to the University Court for their approval.

(3) The Senatus, with the approval of the University Court, shall have power, after consultation with the Faculty of Medicine, to make from time to time Regulations prescribing the order in which the several courses of instruction shall be attended, or increasing the number of terms over which a course of instruction in any subject shall extend, or restricting the number of courses that may be attended in any term, or removing any subject from the list of subjects specified in Section V of this Ordinance, or adding to the said list additional subjects of study as part of the prescribed curriculum for the said degree of Bachelor of Veterinary Medicine and Surgery, or extending the duration of the courses of study beyond the periods of years or terms specified in Section V hereof. The University Court shall communicate to the General Council all Regulations proposed to be so made, and any representations made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such Regulation is made.

(4) The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, theoretical or practical, and of the certificate of attendance at an approved Field Station, Animal Hospital, or other Institution for clinical instruction to be presented by a candidate for the degree of Bachelor of Veterinary Medicine and Surgery: Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate, bearing not only that he has attended the course regularly, but also that he has duly performed the work thereof.

VII. With respect to the Places and Institutions at which Veterinary Study may be pursued, the following Regulations shall have effect:—

- (a) The last two years of Veterinary Study must be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.
- (b) The remaining period of Veterinary Study may be spent in attendance on courses of instruction in the subjects of the curriculum at any University of the United Kingdom or at such Dominion, Colonial, or Foreign University, or at such College incorporated with or affiliated to a University, or at such Veterinary Schools, or under such Teachers as may be specially recognised for the purpose by the University Court, after consultation with the Senatus.
- (c) Of the subjects of study specified in Section V, Sub-section (1), not less than one-half the number must be studied at a University of the United Kingdom, or at a recognised Dominion, Colonial, or Foreign University, or at a recognised College incorporated with or affiliated to a University.
- (d) The remainder of the subjects of study specified in Section V, Sub-section (1), may be taken in one or more Veterinary Schools, recognised under paragraph (b) of this Section, or under one or more Teachers recognised under the same paragraph.

Faculty of Medicine—Veterinary Medicine and Surgery

- (e) It shall be in the power of the University Court, if they shall see cause, at any time, to withdraw or suspend any recognition they may have granted to any Institution or Teacher.
- (f) The University Court shall not grant or continue recognition to any Institution or Teacher, unless they shall be satisfied, after consultation with the Senatus, that the courses of instruction given in such Institution, or by such Teacher, are equivalent to the courses prescribed for Graduation in the University.

VIII. (1) The examinations for the degree of Bachelor of Veterinary Medicine and Surgery shall include the following subjects arranged in the following divisions, namely:—

First Division—

Chemistry, Physics, Biology

Second Division—

Veterinary Anatomy and Histology, Veterinary Physiology and Biochemistry

Third Division—

Part I. Veterinary Pharmacology

Part II. Veterinary Pathology, Bacteriology and Parasitology

Final Division—

Part I. Veterinary Hygiene (including Dietetics and Animal Husbandry)

Part II. Veterinary Preventive and State Medicine (including Epizootiology and Meat and Milk Hygiene), Veterinary Obstetrics (including Diseases of Reproductive Organs)

Part III. Veterinary Medicine (including Therapeutics, Toxicology, Clinical Pathology and Clinical Parasitology), Veterinary Surgery (including General and Regional Surgery, Operative Surgery and examination for soundness)

(2) No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject and fulfilled the prescribed conditions with reference thereto.

(3) The examination in each subject shall include both a written and an oral examination. In those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical proficiency of the candidate.

(4) Before presenting himself for the Final Examination, a candidate must produce:—

- (a) A certificate or certificates from such Teachers as may be specially recognised for the purpose by the University Court, after consultation with the Senatus, certifying that, subsequent to passing the examinations of the first division, he has (1) satisfactorily attended cases of disease and accident and has had experience in general practice among the larger farm animals for a period of not less than six months; and (2) attended not less than six cases of parturition in the larger farm animals.
- (b) A case-book, duly attested by the recognised Teacher or Teachers, of the records of cases attended during the period of six months required under (a) (1) above.

(5) The Senatus, with the approval of the University Court, shall have power to authorise the Examiners, in determining the result of any examination, to take account of the records of the candidate's work during his attendance on the prescribed course of instruction, provided that such records are duly attested by satisfactory evidence submitted to the Examiners.

IX. (1) The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restricted as to his attendance on qualifying courses of instruction in any of the subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

(2) The Senatus, with the approval of the University Court, shall have power, by regulations made from time to time, to alter the number of the divisions specified in Section VIII, to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall, for the purposes of examination, be sub-divided or combined or transferred, from one division to another: Provided always that the final division shall in all cases include practical and clinical examinations in Veterinary Medicine, Veterinary Surgery and Veterinary Obstetrics.

X. (1) The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who, at any other University of the United Kingdom or elsewhere, has attended an approved course of instruction and passed an approved examination in any of the subjects comprised in the first or second divisions specified in Section VIII, to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Edinburgh: Provided always that in the judgment of the Senatus, the course of instruction is substantially equivalent to the course prescribed for graduation in the University of Edinburgh, that the standard of the examination is satisfactory, and that, in accordance with the provisions of Section VII, Sub-section (a), the last two years of Veterinary Study shall be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.

(2) In the case of a candidate who has, at the University of Edinburgh, completed a course of instruction and passed an approved examination for the degree of Bachelor of Science in Veterinary Science in any of the subjects comprised in the first or second or third divisions specified in Section VIII, the Senatus shall have power to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination for the degree of Bachelor of Veterinary Medicine and Surgery: Provided always that in the judgment of the Senatus the course of instruction is substantially equivalent to the course prescribed for graduation in Veterinary Medicine and Surgery, that the standard of examination is satisfactory, and that in accordance with the provisions of Section VII, Sub-section (a), the last two years of Veterinary Study shall be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum for the degree of Bachelor of Veterinary Medicine and Surgery.

(3) In the case of a candidate who has, at the University of Edinburgh, or at any University of the United Kingdom, or at any other University specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics and Biology (including therein Botany and Zoology), qualifying for a degree in Arts, Science, Medicine, or Dental Surgery, the Senatus shall have power to exempt him from passing the examination in the corresponding subject or subjects comprised in the first division: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary or Entrance Examination.

Faculty of Medicine—Veterinary Medicine and Surgery

(4) In the case of a candidate who has, at the University of Edinburgh, or at the Royal (Dick) Veterinary College, Edinburgh, completed a course of instruction and passed an approved examination recognised as qualifying for membership of the Royal College of Veterinary Surgeons in any of the subjects comprised in the first or second divisions specified in Section VIII, the Senatus shall have power to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination for the degree of Bachelor of Veterinary Medicine and Surgery of the University of Edinburgh: Provided always that in the judgment of the Senatus the course of instruction is substantially equivalent to the course prescribed for graduation in the University of Edinburgh, that the standard of the examination is satisfactory, and that, in accordance with the provisions of Section VII, Sub-section (a), the last two years of Veterinary Study shall be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the curriculum.

XI. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

XII. A candidate who has passed the examination in the subjects comprised in the first division may be admitted to examination in the subjects of the second division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.¹

XIII. A candidate who has passed the examinations in the subjects of the second division may be admitted to examination in the subjects of the third division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

XIV. A candidate who has passed the examinations in the subjects of the third division may be admitted to examination in the subjects of the fourth or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to Part III of the Final Examination before he has completed five years of Veterinary Study.

XV. If any candidate at any of the examinations be found unqualified in a subject or subjects, he may not again be admitted to the examination unless he has pursued such further study, for such time and under such conditions as the Faculty of Medicine may prescribe. Satisfactory certificates that the candidate has complied with the requirements of the Faculty must be produced when candidates re-enter for examination.

XVI. If any candidate at any of the examinations be found to have passed in a subject or subjects with sufficient merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects included in the same examination, provided that he has attained a reasonable standard in the subject or subjects in which he is unqualified.

XVII. After the candidate has fulfilled the prescribed conditions and has satisfied the Examiners in the subjects of the fourth or final division of the examination, the Dean of the Faculty of Medicine shall, on behalf of the Faculty, report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the degree of Bachelor of Veterinary Medicine and Surgery on payment of the required fees.

XVIII. Every candidate for graduation shall produce evidence of having conformed to the Regulations which were in force at the time he commenced the course of study for the degree of Bachelor of Veterinary Medicine and Surgery.

¹ See REGULATIONS, pp. 244-246.

B.V.M. & S. and D.V.M. & S. Regulations

XIX. Every candidate for graduation must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

Degree of Doctor of Veterinary Medicine and Surgery

XX. (1) Subject to the conditions hereinafter specified, the degree of Doctor of Veterinary Medicine and Surgery may be conferred on any candidate who has obtained the degree of Bachelor of Veterinary Medicine and Surgery or the degree of Bachelor of Science in Veterinary Science of the University of Edinburgh and has been engaged in veterinary practice or other work bearing directly on his profession for at least three years.

(2) Each candidate for the degree of Doctor of Veterinary Medicine and Surgery shall submit for the approval of the Faculty of Medicine a thesis on any branch of knowledge comprised in the second, third and fourth divisions of the examination for the Degree of Bachelor of Veterinary Medicine and Surgery which he may have made a subject of special study; and the thesis, accompanied by a declaration signed by the candidate that the work has been done and the thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.¹

(3) No thesis will be approved which does not contain either the results of original investigations in a branch of knowledge comprised in the second, third and fourth divisions of the examination for the degree of Bachelor of Veterinary Medicine and Surgery or a critical exposition of the researches and opinions of others on the subject selected by the candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.²

(4) After submitting his thesis the candidate may be required by the Faculty of Medicine to present himself for examination, which may be a written or oral or clinical or practical test, or any combination of these, in the branch of Veterinary Medicine and Surgery in which the subject of the thesis falls.

Examiners

XXII. The Examiners for the degree of Bachelor of Veterinary Medicine and Surgery shall be the Professors and Lecturers who conduct courses of Veterinary Study in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary. Provided that the Court shall make such provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted under Regulations framed by the Senatus, subject to the approval of the University Court.

¹ Candidates are required to lodge two copies of their theses. Both copies of the thesis (if accepted) will be retained by the University, but after graduation as D.V.M. & S. a candidate may borrow one copy of this thesis for a limited period, on obtaining permission from the Dean to do so, and on depositing £1. If a thesis includes expensive diagrams, etc., a single copy of such portions of the thesis will be accepted, but, where possible, photographic copies of the originals should accompany the second copy of the thesis. Candidates are required to submit with the thesis, but not bound with it, three copies of a summary setting out in approximately 250-500 words the main argument and conclusions of the thesis. The University shall have the right to publish such summaries of approved theses, or to authorise their publication by any other learned body. Candidates are required to type or write their theses on paper, 11 in. by 8½ in., with margins 1½ in. at each side. For handwritten theses the paper should have faint lines between the two margins. The thesis is to be written, or typed, on one side of each leaf only; and the subject of the thesis and name of the author should appear on the front of the outside cover, and if the thesis is of sufficient thickness, also along the back of the cover. There is no regulation as to length of thesis.

² The record submitted shall be that of original independent work. Work which has been carried out under supervision, for instance in accordance with the regulations for the Ph.D. degree, or which has previously been accepted for a higher degree or diploma, shall not be acceptable for the degree of D.V.M. & S.

Faculty of Medicine—Veterinary Medicine and Surgery

Board of Studies

XXIII. The Senatus Academicus shall institute a Board of Veterinary Studies, consisting of such members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and shall appoint one of the members of the Board to be Convener. The Principal of the University and the Dean of the Faculty of Medicine shall be *ex officio* Members of the Board of Studies.

General

XXIV. From and after the date on which this Ordinance comes into operation University Court Ordinance No. XXXVIII (Edinburgh No. 13—Institution of Degrees in Veterinary Science and Relative Regulations) is hereby repealed: Provided always that a student who at the aforesaid date has already commenced a course of study with a view to graduation in Veterinary Science under the Regulations in force at the time may complete his course and become a candidate for the degree of Bachelor of Science in Veterinary Science in conformity with such Regulations: Provided also that graduates who have obtained the degree of Bachelor of Science in Veterinary Science under the said University Court Ordinance No. XXXVIII (Edinburgh No. 13) and who at the aforesaid date have held the said degree for at least three years may offer themselves for the degree of Doctor of Science in Veterinary Science under the conditions set forth in the aforesaid Ordinance, not later than five years after this present Ordinance shall have come into force.

XXV. The degrees of Bachelor of Veterinary Medicine and Surgery and of Doctor of Veterinary Medicine and Surgery conferred under this Ordinance shall not be conferred *honoris causa tantum*, nor on any persons who have not satisfied the conditions hereinbefore set forth.

XXVI. From and after the date on which this Ordinance comes into operation University Court Ordinance No. CLXXXVII (Edinburgh No. 65—Affiliation of the Royal (Dick) Veterinary College, Edinburgh) is hereby repealed.

XXVII. This Ordinance shall come into force at the beginning of the academical year next after the date of approval thereof by His Majesty in Council.

CURRICULUM FOR THE DEGREE OF B.V.M. & S.

New Regulations

Students admitted on or after October 1958 to the first and second years of the course of study leading to the degree of B.V.M. & S. will be required to attend the classes shown under the First and Second Year time-tables below and in subsequent years the following curriculum:—

THIRD YEAR, AUTUMN TERM—Anatomy, including Histology and Embryology; Physiology; Biochemistry.

Second Professional (December; resit in March)—Veterinary Anatomy and Histology; Veterinary Physiology and Biochemistry.

THIRD YEAR, SPRING AND SUMMER TERMS—Genetics; Veterinary Botany; Applied Physiology; Veterinary Hygiene, Dietetics and Animal Husbandry; Veterinary Pharmacology.

Third Professional, Part I (June; resit in September)—Veterinary Hygiene (including Dietetics and Animal Husbandry); Veterinary Pharmacology.

Curriculum

FOURTH YEAR—Veterinary Pathology; Veterinary Bacteriology; Veterinary Parasitology; Meat Inspection; Introductory Veterinary Medicine and Veterinary Surgery; Clinical Medicine and Surgery.
Third Professional, Part II (June; resit in September)—Veterinary Pathology, Bacteriology and Parasitology.

FIFTH YEAR—Veterinary Medicine; Veterinary Surgery; Veterinary Preventive and State Medicine; Meat Inspection; Veterinary Obstetrics; Clinical Medicine and Surgery.
Final Professional (June; resit in November)—Veterinary Medicine; Veterinary Surgery; Veterinary Preventive and State Medicine; Veterinary Obstetrics.

Examinations are held on the subjects of the First Professional Examination in March, June and September.

Old Regulations

Students admitted in October 1958 to the second or subsequent years of the course of study leading to the degree of B.V.M. & S. attend the classes shown under the third, fourth and fifth year time-table below.

Examinations are held in the subjects of the Second Professional Examination in March and June; in the Third Professional, Part I in June and September, Part II in March, June and September; in the Final Professional, Part I in June, September and March, Part II in March, June and September; and Part III in June and November.

First Year—Autumn and Spring

	MONDAY	TUFSDAY	WED.	THURSDAY	FRIDAY	SAT.
9-11	Phys. Pract.	Phys. Pract.	Biol. Pract.	Biol. Pract.	Chem. Pract.	Chem. Pract.
11.30-12.30	Biology Lecture	Chemistry Lecture	Biology Lecture	Chemistry Lecture	Chemistry Lecture ²	
2-3	Physics Lecture	Physics Lecture		Physics Lecture	Physics Lecture	
3-5		3.30-4.30 Animal Management		3.30-4.30 Animal Management		

First Professional Examination—Physics.

First Year—Summer

9-10	9.30-10.30 Biology Lecture ¹	Animal Management (Section A)		9.30-10.30 Biology Lecture ¹		
10-11		do.	Anatomy Dissection		Anatomy Dissection	
11-12	Chem. Pract.	do.	do.	Chem. Pract.	do.	
12-1	do.	Anatomy Demonstration (Section B)	Anatomy Lecture	do.	Anatomy Lecture	
2-3	Chemistry Lecture	Chemistry Lecture		Chemistry Lecture	Anat. Dem. A	Anim. Man. B
3-5	Anatomy Dissection					do.

First Professional Examination—Chemistry and Biology.

¹ During first five weeks of term.

² Autumn only.

Faculty of Medicine—Veterinary Medicine and Surgery

Vacation Training in Animal Management.—Not less than fourteen days' practical work at the Field Station will be undertaken, students to reside in the Students' Hostel at Bush House and attend in groups: Group 1, end of summer vacation, first year; Group 2, first half of Easter Vacation, second year; Group 3, second half of Easter vacation, second year.

Second Year—Autumn

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Physiology Lecture	Physiology Lecture	Physiology Lecture	Biochemistry Lecture	Biochemistry Lecture
10-12	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
12-1	Anatomy Lecture	Anatomy Demonstration	Anatomy Lecture	Anatomy Demonstration	Anatomy Lecture
2-3	Biochemistry Lecture	Animal Management Practical		Physiology Lecture	Physiology Lecture
3-4	3-4.30 Histology	do.		3-4.30 Physiology Demonstration	3-5 Physiology Practical

Second Year—Spring

9-10	Physiology Lecture	Physiology Lecture	Physiology Lecture	Biochemistry Lecture	Biochemistry Lecture
10-12	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
12-1	Anatomy Lecture	Histology and Embryology Lecture	Anatomy Lecture	Anatomy Demonstration	Anatomy Lecture
2-4	Biochemistry Practical	Physiology Practical		2-3.30 Histology and Embryology Practical	Physiology Practical
4-5	do.	do.		3.30-5 Physiology Demonstration	do.

Second Year—Summer

9-10	Physiology Lecture	Physiology Lecture	Physiology Lecture	Physiology Lecture	Biochemistry Lecture
10-12	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
12-1	Anatomy Lecture	Anatomy Lecture	Anatomy Demonstration	Anatomy Lecture	Anatomy Demonstration
2-3	Biochemistry Practical	Histology and Embryology Lecture		2-3.30 Histology and Embryology Practical	Physiology Practical
3-5	do.	Physiology Practical		3.30-5 Physiology Demonstration	do.

Examination—Animal Management (during summer term).

Third Year—Autumn

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Pharmacology Lecture	Physiology Demonstration	Physiology Lecture	Physiology Lecture	Physiology Lecture
10-1	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
12-1	Anatomy Demonstration	Anatomy II Lecture	Anatomy Demonstration	Anatomy II Lecture	Anatomy Demonstration
2-3	Physiology Lecture	Genetics Lecture		Genetics Lecture	Pharmacology Lecture
3-4	Physiology Practical	3-4.30 Histology and Embryology Practical		3-4.30 Histology and Embryology Practical	Genetics Lecture
4-5	do.				

Third Year—Spring

9-10	Pharmacology Lecture	Pharmacology Lecture	Physiology Lecture	Physiology Lecture	Physiology Lecture
10-12	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
12-1	Anatomy Demonstration	Anatomy II Lecture	Anatomy Demonstration	Anatomy II Lecture	Anatomy Demonstration
2-3	Physiology Lecture	2-3.30 Histology and Embryology Practical		Pharmacology Lecture	Histology and Embryology Lecture
3-5	Physiology Practical	3.30-5 Physiology Demonstration		Pharmacology Practical (Section A)	Pharmacology Practical (Section B)

*Second Professional Examination—Veterinary Anatomy and Histology:
Veterinary Physiology and Biochemistry*

Third Year—Summer

9-10	Pathology Lecture	Pathology Lecture	Pathology Lecture	Pathology Lecture	Pathology Lecture
10-11	10.15-11.15 Bacteriology Lecture	10.15-11.15 Bacteriology Lecture	10.15-11.15 Bacteriology Lecture	Pathology Practical	Pathology Practical
11-12	11.15-1 Bacteriology Practical	11.15-1 Bacteriology Practical	11.15-1 Bacteriology Practical	do.	do.
12-1	do.	do.	do.	Pharmacology Lecture	
2-3	Pharmacology Lecture	Pharmacology Lecture		Parasitology Lecture	Pharmacology Lecture
3-4	Pharmacy Practical (Section A)	Parasitology Lecture		Parasitology Practical	Pharmacy Practical (Section B)
4-5	do.	Parasitology Practical		do.	do.

Third Professional Examination—Part I, Veterinary Pharmacology.

Faculty of Medicine—Veterinary Medicine and Surgery

Fourth Year—Autumn

	MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SAT.
9-10	Hygiene Lecture	Pathology Lecture	Hygiene Lecture	Hygiene Lecture	Hygiene Lecture	Hygiene Demons.
10-11	Bacteriology Lecture	Clinical Surgery and Medicine	Pathology Lecture	Clinical Surgery and Medicine	Bacteriology Lecture	do.
11-12	Bacteriology Practical	do.	Pathology Practical	do.	Bacteriology Practical	do.
12-1	do.	Medicine Lecture	do.	Medicine Lecture	do.	
2-3	Surgery Lecture	Parasitology Lecture		Parasitology Lecture	Surgery Lecture	
3-4	Pathology Practical	Parasitology Practical		Parasitology Practical	Pathology Lecture	
4-5	do.	do.		do.		

Fourth Year—Spring

9-10	Dietetics Lecture	Dietetics Lecture	Parasitology Lecture	Dietetics Lecture	Dietetics Lecture	Hygiene Demons.
10-11	Bacteriology Lecture	Clinical Surgery and Medicine	Parasitology Practical	Clinical Surgery and Medicine	Bacteriology Lecture	do.
11-12	Bacteriology Practical	do.	do.	do.	Bacteriology Practical	do.
12-1	do.	Surgery Lecture	Pathology Lecture	Surgery Lecture	do.	
2-3	Hygiene Lecture	Medicine Lecture		Parasitology Lecture	Pathology Lecture	
3-4	Hygiene Practical	Pathology Practical		Parasitology Practical	Pathology Practical	
4-5	do.	do.		do.	do.	

Third Professional Examination—Part II, Veterinary Pathology, Bacteriology and Parasitology.

Fourth Year—Summer

9-10	Preventive and State Medicine Lecture	Preventive and State Medicine Lecture	Preventive and State Medicine Lecture	Preventive and State Medicine Lecture	Preventive and State Medicine Practical	Hygiene Demonstration
10-11	Preventive and State Medicine Demonstration	Clinical Surgery and Medicine	Preventive and State Medicine Practical	Clinical Surgery and Medicine	Preventive and State Medicine Practical	do.
11-12	½ Class Applied Anat.	do.	do.	do.	½ Class Applied Anat.	do.
12-1	Surgery Lecture	Medicine Lecture	Medicine Lecture	Medicine Lecture	Surgery Lecture	
2-3	Obstetrics Lecture	Obstetrics Lecture		2.30-4.30 Meat Inspection	Obstetrics Lecture	
3-4	½ Class Clinical Lab.	Obstetrics Tutorial			½ Class Clinical Lab.	
4-5	do.				do.	

Final Professional Examination—Part I, Veterinary Hygiene.

Fifth Year—Autumn

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Jurisprudence Lecture	Surgery Lecture	Surgery Lecture	Surgery Lecture	Surgery Lecture
10-12	Sectional Classes ¹	Sectional Classes ¹	Sectional Classes ¹	Sectional Classes ¹	Sectional Classes ¹
12-1	Medicine Lecture	Medicine Lecture	Obstetrics Lecture	Medicine Lecture	Medicine Lecture
2-3	Obstetrics Lecture	Veterinary Public Health Lecture		2.30-4.30 Meat Inspection	Veterinary Public Health Lecture
3-5	Sectional Classes ¹	Veterinary Public Health Practical			Sectional Classes ¹

Fifth Year—Spring

9-10	Jurisprudence Lecture	Surgery Lecture	Surgery Lecture	Surgery Lecture	Surgery Lecture
10-12	Clinical Surgery and Medicine	Sectional Classes ¹	Clinical Surgery and Medicine	Sectional Classes ¹	Clinical Surgery and Medicine
12-1	Medicine Lecture	Medicine Lecture	Medicine Lecture	Medicine Lecture	Medicine Lecture
2-3	Preventive Medicine Tutorial			2.30-4.30 Meat Inspection	Obstetrics Tutorial
3-5	Sectional Classes ¹	Sectional Classes ¹			Sectional Classes ¹

Final Professional Examination—Part II, Veterinary Preventive and State Medicine; Veterinary Obstetrics.

Fifth Year—Summer

9-10	Surgery Lecture	Poultry Diseases Lecture	Clinical Surgery and Medicine	Toxicology Lecture	Surgery Tutorial or Lecture
10-12	Clinical Surgery and Medicine	Sectional Classes ¹	Clinical Surgery and Medicine	Sectional Classes ¹	Clinical Surgery and Medicine
12-1		do.		do.	
2-4	Sectional Classes ¹	Sectional Classes ¹		Sectional Classes ¹	Sectional Classes ¹
4-5					

Final Professional Examination—Part III, Veterinary Medicine; Veterinary Surgery.

¹ Classes are divided into sections so that each section will take equivalent classes during the three terms of the Fifth Year. Full details of these classes will be posted on the Final Year notice-board at the beginning of each term.

Faculty of Medicine—Veterinary Medicine and Surgery

Certificates of Attendance on Classes in the Faculty of Medicine

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner:—

Each Professor shall ascertain the presence of his pupils at least 26 times in a course of 6 months' duration, and 13 times in a course of 3 months' duration.

Those who have been absent on one-third or more of the occasions on which attendance has been ascertained, or have not duly performed the work of the class, including any examinations that may be held, shall not be entitled to any certificate.

The following is the form of certificate which must be adopted in all cases:—

"I certify that M..... attended my course of instruction on during the session; that was present on of the occasions on which attendance was ascertained; and that duly performed the work of the class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for 6 weeks or upwards in a course of 6 months, or for 3 weeks in a course of 3 months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty, for the decision of the Faculty.

Whenever the students' cause for absence shall be admitted by the Professor or by the Faculty, the certificate shall bear that he "attended" and shall state the amount of the irregularity and the nature of the excuse.

Regulations Governing Validity of Class Certificates, Admission to Classes, and Exclusion from Further Attendance.

Note.—In these regulations the phrase "first opportunity of appearance" at an examination refers to the first occasion of the examination following the course of study laid down in the curriculum.

First Year:—

(a) Class Certificates shall be valid for two opportunities of entering for the First Professional Examination within the academical year in which they are granted.

(b) A student who, at the end of the first year of study, has not passed in at least one subject of the First Professional Examination, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(c) A student who, at the end of the first year of study, has passed in at least one but not in all subjects of the First Professional Examination, shall be required to repeat in the following year, the course(s) of instruction in the subject(s) in which he has failed.

(d) A student who has not completed the First Professional Examination at the end of one year additional to the regular period of study, shall be reported by the Faculty to the Senatus for exclusion from further attendance on courses and examinations in the Faculty.

(e) In exceptional circumstances, and with the approval of the Senatus, the Faculty of Medicine may waive these Regulations.

Second and Third Years:—

(a) No candidate shall be admitted to examination in the subjects of the Second Division until he has obtained a Class Certificate in Animal Management.

(b) In the case of a student who fails to obtain a Class Certificate in Animal Management by the end of the ninth term of study, the Faculty shall have

power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

(c) Candidates must enter for the Second Professional Examination as a whole and must pass in the subjects of Veterinary Anatomy¹ and Veterinary Physiology,² at the same time.³

(d) Class Certificates shall normally be valid for three opportunities of entering for the Second Professional Examination.

(e) No student shall be allowed to enter the course in the eighth³ term of study if he has failed to obtain a Class Certificate in either Veterinary Anatomy¹ or Veterinary Physiology²; nor shall he be permitted, under any circumstances, to proceed to the fourth year if he has not passed the Second Professional Examination.

(f) In the case of a student who fails in the Second Professional Examination at his second appearance, the Examination Board shall have power to recommend to the Faculty that, before re-admission to the examination, he be required to repeat classes in the subject or subjects in which he has failed.

(g) In the case of a student who fails to obtain a Class Certificate in Veterinary Anatomy¹ or in Veterinary Physiology,² the Faculty shall have power to recommend to the Senatus that he be not re-admitted as a student in the Faculty.

(h) A student who has not passed the Second Professional Examination within 13 months of his first opportunity of appearance thereat shall not be allowed to re-enter for the examination and shall not be re-admitted as a student in the Faculty of Medicine except by special permission of the Senatus on the recommendation of the Faculty.

Third and Fourth Years:—

(a) Class Certificates shall normally be valid for three opportunities of entering for the Third Professional Examination.

(b) A student who fails to obtain a Class Certificate in Pharmacology will not be allowed to proceed to the Fourth Year of the curriculum.

(c) A student who fails in the Third Professional Examination (Part I) at his second appearance may be required, before re-admission to the Examination, to repeat the class in the subject in which he has failed.

(d) In the case of a student who has not completed the Third Professional Examination (Part I) within thirteen months of his first opportunity of appearance thereat, the Faculty of Medicine may recommend to the Senatus that he should be excluded from further attendance at courses and examinations in the Faculty.

(e) Candidates must enter for Part II of the Third Professional Examination as a whole and shall be required to pass in not fewer than two subjects at the same time; or otherwise to repeat the Examination in all three subjects.

(f) A student who fails to complete the Third Professional Examination (Part II) at his second appearance may be required, before re-admission to the Examination, to repeat the classes in the subjects in which he has failed.

(g) No student shall be allowed to proceed to the summer term of the Fourth Year if he has failed to obtain a Class Certificate in any of the subjects of Part II of the Third Professional Examination, nor shall he be allowed in any circumstances to proceed to the Fifth Year of the curriculum if he has not completed the Third Professional Examination.

(h) In the case of a student who has not completed the Third Professional Examination (Part II) within thirteen months of his first opportunity of appearance thereat, the Faculty of Medicine may recommend to the Senatus that he should be excluded from further attendance at courses and examinations in the Faculty.

(i) In the case of a student who fails to obtain a Class Certificate in any of the subjects of the Third Professional Examination, the Faculty may recommend to the Senatus that he be not re-admitted as a student in the Faculty.

¹ Including Histology.

² Including Biochemistry.

³ Operative in session 1960-61. For old regulations see *University Calendar 1957-58*, p. 243.

Faculty of Medicine—Veterinary Medicine and Surgery

Fourth and Fifth Years:—

(a) Class Certificates shall normally be valid for four opportunities of entering for the Final Professional Examination.

(b) In the case of a student who fails to obtain a Class Certificate in any of the subjects of the Final Professional Examination, the Faculty may recommend to the Senatus that he be not re-admitted as a student in the Faculty.

(c) A student who fails in the Final Professional Examination (Part I) at his second appearance may be required, before re-admission to the Examination to repeat the class in the subject in which he has failed.

(d) In the case of a student who has not completed the Final Professional Examination (Part I) within sixteen months of his first opportunity of appearance thereat, the Faculty may recommend to the Senatus that he should be excluded from further attendance at courses and examinations in the Faculty.

(e) Candidates must enter for Part II of the Final Professional Examination as a whole, but may be allowed to pass in separate subjects of the examination.

(f) Candidates may not enter for Part III of the Final Professional Examination until they have completed Parts I and II of the Final Professional Examination.

(g) A student who fails to complete the Final Professional Examination (Part II) at his second appearance may be required, before re-admission to the examination, to repeat the classes in the subject or subjects in which he has failed.

(h) In the case of a student who has not passed the Final Professional Examination (Part II) within sixteen months of his first opportunity of appearance thereat, the Faculty may recommend to the Senatus that he should be excluded from further attendance at courses and examinations in the Faculty.

(i) Candidates must enter for Part III of the Final Professional Examination as a whole and must pass in the subjects of Veterinary Medicine and Veterinary Surgery at the same time.

(j) A student who fails to complete the Final Professional Examination (Part III) at his second appearance may be required, before re-admission to the examination, to repeat the classes in the subject or subjects in which he has failed.

(k) In the case of a student who has not completed the Final Professional Examination (Part III) within eighteen months of his first opportunity of appearance thereat, the Faculty may recommend to the Senatus that he be not allowed to re-enter for the examination.

Honours in Professional Examinations

Passes with Distinction.—Candidates who have attained a sufficiently high standard at any of the Professional Examinations will be announced as having passed that examination "with distinction".

Honours at Graduation.—Candidates who have displayed special merit in the Professional Examinations over the whole course will be announced at the time of Graduation as having obtained the degree with honours. Candidates qualified for Honours, who have at another University passed an Examination which exempts them from the First or Second Professional Examination will in the arranging of the total marks be granted a pass mark in respect of that examination.

Merit Certificates and Class Medals

Students who obtain 70 per cent. or more of the total marks available in class examinations for the courses of B.V.M. & S. may be awarded a Certificate of Merit in place of a Class Certificate.

The Class Medal may be awarded to the most outstanding student in any of the courses for the degree of B.V.M. & S. Such an award will not be made in years in which there is no student of sufficient merit.

COURSES OF INSTRUCTION

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; Dr. NEIL CAMPBELL.
Reader; and Lecturers

Inorganic, Physical and Organic Chemistry Lecture Course

Tues., Thurs., Fri. at 11.30 in autumn; Tues., Thurs. at 11.30 in spring; Mon., Tues., Thurs. at 2 in summer. The syllabus includes:—The fundamentals of general chemistry; the periodic classification; atomic structure; the electronic theory of valency; radioactivity; systematic chemistry of the elements. Chemical equilibria; properties of electrolytes; the *pH* notation and applications; oxidation-reduction systems; catalysis and adsorption; the colloidal state. The principles of organic chemistry; molecular structure; structural formulæ; radicals; isomerism; substitution and addition reactions; unsaturation; elements of stereo-chemistry. Chemistry of the main classes of aliphatic and aromatic compounds, and an introduction to the chemistry of the heterocyclic compounds.

Practical Course

Forty hours in each of the three terms. Instruction is given in simple laboratory technique; elementary physical chemistry; qualitative and quantitative inorganic chemistry; qualitative organic analysis; and the preparation of organic compounds.

Recommended books:—F. Prescott, *Intermediate Chemistry* (University Tutorial Press, 3rd ed., 1947); F. W. Goddard and E. J. F. James, *The Elements of Physical Chemistry* (Longmans, Green, 1952); J. Read, *Introduction to Organic Chemistry* (Bell, 1948); J. B. Conant and H. H. Blatt, *Fundamentals of Organic Chemistry* (Macmillan, 1950); William Klyne, *Practical Chemistry for Medical Students* (E. and S. Livingstone, 1946).

PHYSICS

Dr. DAINTY, Reader; Dr. WILLIAMS, Dr. JOHNSTON
and Dr. MALCOLM, Lecturers

Lecture Course

Mon., Tues., Thurs. and Fri. at 2 in autumn and spring.

This course, which presupposes some knowledge of physics, consists of mechanics, properties of matter, heat, sound, light, electricity, magnetism, X-rays and radioactivity. The aim of the course is to explain the fundamental principles of physics. Those principles are stressed which are of importance in understanding the processes occurring in living matter and illustrative examples from biology and medicine are given as far as possible. The physical instruments used in biological and medical research and practice are described and discussed.

Practical Work and Tutorials

Four hours each week in the autumn and spring terms.

The practical work consists of the carrying out of about twenty experiments. Tutorial classes are held each week; their aim is to help the student to understand physical principles by applying these principles to solve numerical and other problems.

Faculty of Medicine—Veterinary Medicine and Surgery

BIOLOGY

PROFESSOR SWANN; DR. HALE and Lecturers

Lecture Course

Mon. and Wed. at 11.30 a.m. in autumn and spring, and ten lectures in summer at 9.30 a.m., Mon. and Thurs.

The course aims at being an introduction to the Science of Life. It deals in an elementary way with the physics and chemistry of protoplasm, the origin of life, the structure and activities of micro-organisms and of plant and animal cells, the problems of growth and development, the nature of inheritance, the organisation and functioning of a range of animals of increasing complexity, the difference between plants and animals, the idea of evolution and nervous systems and behaviour.

Practical Course

Veterinary students attend as follows:—Wed. and Thurs. in autumn and spring, 9 to 11 a.m.

Observations on living animals, dissections, introduction to use of the microscope, microscopical studies and demonstrations designed to illustrate the subjects discussed in the lecture course.

ANIMAL MANAGEMENT

PROFESSOR ROBERTSON; MR. T. G. MARR and MR. I. S. ROBERTSON.
Lecturers

This course of forty lectures and some fifty hours' practical work and demonstrations deals with the following subjects:—

Functions of livestock and recognition of the principal breeds. Description and identification of animals; conformation, measurement and ageing; signs of health.

Manipulation and restraint; casting of animals. Harness fitting and adjusting. Shoeing.

Management of various species—cattle, horses, sheep, goats, pigs, dogs, poultry and fur-bearing animals.

In addition students will be required to undertake not less than fourteen days' practical work at the Field Station during the summer vacation of the first year or the Easter vacation of the second.

Text-book recommended:—Miller and Robertson, *Practical Animal Husbandry* (Oliver & Boyd, 1952).

VETERINARY ANATOMY

MR. GRAHAME, Reader; MR. TAYLOR, Senior Lecturer; MR. SPEED.
MR. MORRIS and DR. STOKOE, Lecturers

Systematic Course

This course of lectures, deals with the systematic and comparative anatomy of the domesticated animals. The course will include development and growth of the tissues and organs of these animals with special reference to the foetal membranes and placentation. Every aid is provided to illustrate and demonstrate the course of lectures. In addition, demonstrations and tutorials are given throughout the course.

Text-book:—Sisson, *The Anatomy of the Domesticated Animals*.

Courses of Instruction (B.V.M. & S.)

Practical Anatomy

Throughout the five terms a student dissects selected parts of horse, dog and ruminant. A work book of drawings and diagrams is made of the parts dissected.

Dissected regions of the ruminant, pig and fowl are frequently demonstrated. Fresh material, organs and tissues, of the different animals are provided for examination. Members of the staff are in attendance to direct, aid and demonstrate.

Periodic tests are given on the parts recently dissected.

Text-books:—Bradley, *The Topographical Anatomy of the Head and Neck of the Horse*; *The Limbs of the Horse*; *The Thorax and Abdomen of the Horse*; *The Topographical Anatomy of the Dog*; *The Structure of the Fowl*.

Surface and Radiographic Anatomy

Throughout the five terms tutorial classes are held during the practical anatomy periods, using living animals and radiographs.

Applied Anatomy

The course consists of a series of lectures and demonstrations, using living subjects, specimens and radiographs, on those features in anatomy which have a special bearing on the subjects of Surgery, Medicine and Obstetrics. Classes commence in the summer term of the fourth year and continue throughout the fifth year.

Text-book:—Taylor, *Regional and Applied Anatomy of the Domestic Animals*.

Anatomical Demonstrations

The lectures are supplemented by tutorial demonstrations and meetings where fresh and preserved tissues are demonstrated.

HISTOLOGY AND EMBRYOLOGY

Mr. GRAHAME, Reader; Mr. MORRIS and Dr. STOKOE, Lecturers

(a) Histology

A series of lectures and practical classes is given in correlation with the lectures in Anatomy and Physiology. In the practical class the student is taught simple routine methods of preparing and staining the tissues of the domesticated animals, and studies in detail the microscopic structure of their tissues and organs.

Text-books:—Schafer, *Essentials of Histology*; Trautmann and Fiebeger, *Fundamentals of the Histology of Domestic Animals*; Maximow and Bloom, *Text-book of Histology*; Bremer and Weatherford, *Text-book of Histology*.

(b) Embryology

In addition to lectures, general and special development are illustrated by serial sections, models, films, and fresh specimens.

Text-books:—Arey, *Developmental Anatomy*; Patten, *Embryology of the Pig*; *Embryology of the Chick*.

Faculty of Medicine—Veterinary Medicine and Surgery

VETERINARY PHYSIOLOGY

PROFESSOR WHITTERIDGE; Dr. ELLIOTT, Senior Lecturer;
Mr. LUNDY and Dr. LAMB, Lecturers

Lectures

One hundred and forty lectures in the combined Physiology-Biochemistry course for the Second Professional Examination are given during the second year and autumn term of the third year. As far as possible this course and the courses in Anatomy and Histology are kept parallel. The syllabus includes:—The formation and functions of blood and other body fluids. The properties and control of skeletal, visceral and cardiac muscle. Heart and circulation. The mechanism and control of pulmonary ventilation; gaseous interchange at lungs and tissues. Muscular exercise. Comparison of the alimentary tracts of the domestic animals, including poultry. Secretion of digestive juices. Physiology of the rumen, reticulum, omasum and abomasum. Significance of micro-organisms in the alimentary tracts of the domestic animals. Energy metabolism. Functions of the skin; control of body temperature. The physiology of renal function. Reflex action, autonomic nervous system and central nervous system. Special senses. The ductless glands. Egg formation in the fowl. The general principles of dietetics, fundamentals of reproduction and lactation and functional aspects of the physiology of pregnancy and parturition. The aspects of these subjects of particular importance in veterinary medicine.

Practical Classes

Some sixty meetings are held during the four terms. As far as possible theoretical and practical work are kept parallel and the exercises carried out are arranged to illustrate and supplement the lecture course.

Demonstrations

Mammalian and other demonstrations are arranged each week during the first, second, third and fourth terms to illustrate physiological phenomena and methods which cannot be included in the practical course.

Supplementary demonstrations and tutorials are organised in sections in co-operation with Anatomy and Animal Management.

Text-books:—Bell, Davidson and Scarborough, *Text-book of Physiology and Biochemistry*; Dukes, *The Physiology of Domestic Animals*; Winton and Bayliss, *Human Physiology*.

BIOCHEMISTRY

PROFESSOR FISHER; Dr. RAMSAY, Senior Lecturer

Lecture Course

Eighty lectures are given during the combined course in Physiology and Biochemistry for the Second Professional B.V.M. & S. Examination. The syllabus includes:—1. The chemistry of carbohydrates, proteins, fats and other compounds of biological importance. 2. Nutritional requirements; the chemistry of animal feeding-stuffs. 3. The catalytic and transport systems of the animal body. 4. Hæmoglobin. 5. Digestion and intermediate metabolism. 6. The biochemistry of renal function. 7. Inorganic materials, including calcium, phosphorus, magnesium, iron, iodine, copper and cobalt. 8. The biochemistry of milk and egg production. 9. Some biochemical aspects of embryology and reproduction.

Practical Course

The course consists of experiments designed to illustrate and supplement the matter treated systematically in the lecture course. The subjects dealt with include the chemistry of animal feeding-stuffs; biochemical catalysis; hæmoglobin; digestion and intermediate metabolism; renal function.

VETERINARY PHARMACOLOGY

Dr. ALEXANDER, Reader; * * *, Lecturer

The course in Veterinary Pharmacology consists of: (a) Lectures in Veterinary Pharmacology; (b) A practical class in Pharmacology; and (c) A practical class in prescribing and dispensing.

Particular attention will be paid to drugs used in the treatment and control of disease in domesticated animals. The practical class will study the pharmacological effects of drugs discussed in the lectures. Instruction will be given in the prescribing and the dispensing of prescriptions, including the nature and use of the appropriate pharmaceutical preparations.

Text-books:—Gaddum, *Pharmacology*; Boddie, *Veterinary Therapeutics*.

VETERINARY PATHOLOGY

Mr. I. S. BEATTIE, Senior Lecturer; Mr. K. W. HEAD, Mr. J. B. M. GELLATLY, Mr. J. C. WHITNEY and * * *, Lecturers.

The course consists of lectures and practical classes during the summer term (3rd year), and autumn and spring terms (4th year).

Lectures

The course of ninety lectures extends over three terms. The lectures deal with the causes of disease, the general principles of animal pathology including neoplasia, the pathology of specific diseases of the domestic animals and the comparative pathology of the various anatomical systems.

Practical Classes

For practical work the class is divided into two sections which receive instruction alternately in Histopathology, and in Morbid Anatomy and Autopsy Technique. Each section meets for two hours twice a week during the three terms, the meetings of the two sections being held simultaneously.

(i) *Histopathology*.—This course runs parallel with the course of lectures and illustrates their content. Microscopes and reagents are supplied but each student is required to make a deposit to cover the loan of a special set of class slides. Part of this deposit is refunded at the end of the course if this loan set is returned intact. The slides from this set are used in the study of the histopathology of the various disease processes dealt with in the lectures and are supplemented by demonstrations.

(ii) *Morbid Anatomy and Autopsy Technique*.—This course is carried on concurrently with the course in Histopathology. It includes practical instruction in the autopsy techniques used in the different species of domestic animals, in the morbid anatomy of the organs and tissues in each species, and in the selection of specimens for laboratory examination and the routine techniques employed. Each student is required to perform at least one autopsy under supervision during this course and report on his findings.

Text-books:—Gaiger and Davies, *Veterinary Pathology and Bacteriology*; R. A. Willis, *Principles of Pathology*; Muir, *Textbook of Pathology*; Payling-Wright, *Introduction to Pathology*; Ogilvie, *Pathological Histology*.

Pathology for Fifth Year Students

In the fifth year, the study of Pathology will be continued in sectional classes for further experience in the laboratory investigation of disease and the correlation of clinical signs with pathological findings.

Faculty of Medicine—Veterinary Medicine and Surgery

VETERINARY BACTERIOLOGY

PROFESSOR CRUICKSHANK; DR. WILSON TAYLOR, Senior Lecturer in Veterinary Bacteriology; DR. SWAIN, Reader in Virology; MR. PHILLIPS, MR. BURROWS and DR. FRASER, Lecturers.

The introductory part of the course begins in the summer term of the third year and deals with the fundamental aspects of bacteriology. The theoretical principles of immunology are discussed with their practical application to the control of animal disease. During the autumn and spring terms of the fourth year the bacterial and viral diseases of the domestic animals are dealt with systematically together with methods of diagnosis and prophylaxis. The practical work is correlated with the lectures and includes instruction in the diagnostic laboratory.

A course of lectures, demonstrations and practical work on the diseases of poultry is given during the autumn term of the fifth year.

Instruction will be given during the summer term in the Bacteriology Department, University New Buildings, Teviot Place; the remainder of the course will be conducted in the Department of Veterinary Bacteriology of the Veterinary School.

The course in Bacteriology for the Diploma in Veterinary State Medicine granted by the University is held during the autumn and spring terms.

Text-books:—Browning and Mackie, *Text-book of Bacteriology*; Mackie and McCartney, *Handbook of Practical Bacteriology* (9th ed.); Gaiger and Davies, *Veterinary Pathology and Bacteriology*.

Bacteriology for Fifth Year Students

In each term of the fifth year sectional classes will be held in the clinical applications of Veterinary Bacteriology and immunology.

VETERINARY PARASITOLOGY

PROFESSOR SWANN; DR. RAYSKI, DR. KETTLE and MRS. ADAM, Lecturers

The course in Veterinary Parasitology comprises lectures and practical classes in Entomology, Helminthology and Protozoology during the summer term of the third year and the autumn and spring terms of the fourth year.

Entomology

DR. KETTLE

The Entomology course, consisting of nineteen lectures and practicals, is designed to enable the student to (a) recognise the arthropods of veterinary importance, and (b) understand the relationship between the bionomics (life cycle, behaviour, etc.) of the arthropod and animal disease, with special reference to conditions in the British Isles. In particular, the following arthropods will be considered in detail:—

Acarina.—Ixodes ricinus; Psoroptes communis; Sarcoptes scabiei.

Insecta.—Lucilia sericata; Melophagus ovinus; Hypoderma (lineata and bovis); Oestrus ovis; Gastrophilus (intestinalis; veterinus and hæmorrhoidalis).

Helminthology

DR. RAYSKI

This course of twenty-seven lectures and some forty-six hours of practical work and demonstrations deals with the following:—

Parasites and parasitism. The morphology, biology, nomenclature and

classification of Trematoda, Cestoda, Nematoda and Acanthocephala. Diagnostic features, life history, bionomics of the helminths of pathological significance with special attention to those occurring in domesticated animals in the British Isles.

Protozoology

Mrs. ADAM

This course covers the structure, life cycles and occurrence of the protozoan parasites of domestic animals, with particular reference to those occurring in Great Britain.

Practical classes will include examination of living parasites, methods for diagnosis of protozoal infections, identification and staining of the organisms, and demonstrations of type specimens.

GENETICS (VETERINARY)

SIR ALICK BUCHANAN-SMITH, Lecturer

The course consists of thirty lectures in the third year—autumn term.

The object of the course is to impart a general understanding of the science of genetics as applied to the improvement of farm livestock and as it affects veterinary practice. The general principles of livestock improvement are also discussed. The lectures include a brief introduction to Genetics, using the larger farm animals as examples. The main part of the course deals with the inheritance of productive qualities, introduction of good and elimination of bad characters, systems of breeding, inbreeding and cross-breeding and the progeny test. Special emphasis is laid upon fertility, problems of artificial insemination, disease resistance and the inheritance of abnormal characters.

VETERINARY HYGIENE AND PREVENTIVE MEDICINE

PROFESSOR ROBERTSON; Mr. FERGUSON and Mr. CHALMERS, Senior Lecturers; Dr. MOODIE, Dr. PAVER, Mr. ROBERTSON, Mr. T. G. MARR, Dr. J. F. WILSON and Dr. WATT, Lecturers; Mr. NORVAL, Lecturer in Meat Inspection.

The course comprises lectures, practical classes and demonstrations during the fourth year and the autumn and spring terms of the fifth in preparation for parts I and II of the final professional examination.

Part I.—Veterinary Hygiene (including Dietetics and Animal Husbandry).

General principles, practice and hygienic requirements in connection with breeding, housing, feeding, management and transit of animals in relation to health, comfort and productivity.

Part II.—Veterinary Preventive and State Medicine (including Epizootiology and Meat and Milk Hygiene).

Epidemiology of animal diseases and the hygienic measure for their prevention and control. Field application of prophylactic methods in the main infectious, parasitic and nutritional disorders of farm animals.

Administrative control of animal disease. Public Health aspects of veterinary work. Meat and milk hygiene, inspection and legislation.

Books recommended:—Linton, *Veterinary Hygiene*; U.S. Department of Agriculture, Year Book 1942, *Keeping Livestock Healthy*; Linton, *Animal Nutrition and Veterinary Dietetics*; Thornton, *Meat Inspection*; C. H. Chalmers, *Bacteria in Relation to the Milk Supply*.

Faculty of Medicine—Veterinary Medicine and Surgery

VETERINARY MEDICINE

**PROFESSOR BODDIE; Mr. E. A. MCPHERSON, Senior Lecturer;
Mr. W. W. GREGOR and Mr. H. S. McTAGGART, Lecturers**

The course in Veterinary Medicine extends over the six terms of the fourth and final years.

In the fourth year course, the lectures deal with the ætiology, signs, diagnosis, prognosis and treatment of general diseases and diseases affecting the various systems of the animal body.

In the clinical classes in the fourth year, clinical methods are explained and demonstrated. These clinical classes are illustrated by actual cases and when suitable cases are available they are used to co-ordinate the teaching of veterinary pathology and veterinary medicine.

In the fifth year, the lecture course deals with the contagious and infectious diseases of the domesticated animals, with disturbances of metabolism, diseases of the skin (including applied parasitology), clinical helminthology and poultry diseases.

In the final term of the fifth year a course on toxicology is given jointly by members of the Departments of Veterinary Medicine and Veterinary Pharmacology.

In the fifth year, the class is divided into sections for clinical instruction in the various branches of veterinary medicine, thus including both work in the veterinary hospital and in the ambulatory clinic that operates in connection with the veterinary practice.

Clinical Laboratory

In the summer term of the fourth year a systematic course in clinical laboratory methods is provided. In the fifth year, students apply these clinical laboratory methods to material obtained from cases they have encountered while receiving clinical instruction.

Text-books:—Boddie, *Diagnostic Methods in Veterinary Medicine*; Udall, *The Practice of Veterinary Medicine*; Monnig, *Veterinary Helminthology and Entomology*; Lapage, *Veterinary Parasitology*.

VETERINARY SURGERY

Systematic Surgery

**PROFESSOR SPREULL; Mr. J. W. BURGESS, Senior Lecturer;
and Lecturers**

This course extends over the fourth academic year of study and continues in the autumn and spring terms of the fifth year, in which will be considered the principles of General Surgery, Regional Surgery, and procedure in Operative Surgery. A short course in anæsthesia of the domesticated animals is also included in the lectures of this course.

Clinical Surgery

The course in Clinical Surgery comprises study of the clinical signs, diagnosis, pathology and treatment of surgical diseases and injuries as met with in domesticated animals in the Hospital and Veterinary practices of the School.

The course of instruction in the fifth year of study forms part of the scheme of clinical training which covers the academic year, the class being divided into sections for this purpose.

Courses of Instruction (B.V.M. & S.)

Operative Surgery

In the fifth year the class is divided into sections for practical training in Operative Surgery, cadavers being used for this purpose.

Text-books:—Dollar, *Veterinary Surgery*; Guard, *Surgical Principles and Technics*; Frank, *Veterinary Surgery Notes*; Markowitz, *Experimental Surgery*; Lecroix and Hoskins, *Canine Surgery*; Wright, *Anaesthesia*..

Veterinary Obstetrics and Diseases of the Genital System

Mr. J. C. WILSON, Lecturer

A course of lectures in the summer term of the fourth year and autumn term of the fifth year. A short series of lectures in diseases of the new-born animal is also included in this course.

A practical class (in sections) in Pregnancy Diagnosis and obstetrical procedures forms part of the scheme of clinical training in the fifth year of study.

Text-books:—Benesch and Wright, *Veterinary Obstetrics*; Laing, *Fertility and Infertility in Domestic Animals*; Roberts, *Veterinary Obstetrics and Genital Diseases*.

Faculty of Medicine—Veterinary Medicine and Surgery

DIPLOMA COURSES

Application for Admission

Forms of application for admission to Diploma courses may be obtained from the Administrative Officer, Royal (Dick) School of Veterinary Studies, Summerhall, Edinburgh 9, on request.

Applications for admission to the Diploma in Tropical Veterinary Medicine course should be lodged with the Director on or before 30th June of the year prior to that in which the applicant desires admission. It is expected that applicants will be informed of the decision on their applications by August or early September. Applicants from abroad are advised to await a decision on their application before making definite arrangements to travel.

Application for admission to the Diploma in Veterinary State Medicine should be lodged with the Director on or before 30th June of the year in which the applicant desires to be considered for admission.

On acceptance candidates shall be required to pay a deposit of £5 on account of the tuition fees payable on enrolment. This sum shall be forfeited in the case of withdrawal later than 31st August (D.V.S.M.) and 31st October (D.T.V.M.).

REGULATIONS FOR THE DIPLOMA IN TROPICAL VETERINARY MEDICINE (D.T.V.M. Univ. Edin.)

1. Candidates for the Diploma must be graduates in Veterinary Medicine and Surgery of the University of Edinburgh or hold corresponding degrees or qualifications registrable with the Royal College of Veterinary Surgeons or of such other universities or veterinary schools as are recognised for the purpose by the University Court.

2. The curriculum for the Diploma consists of two parts and is given from January to June. Candidates who have passed the examinations at the end of the first part may interrupt their course and take the second part at a later date.

The courses are as follows:—

Part I—Spring Term

Bacteriology and Immunology (Tues., Wed., Thurs., 2-5)

Pathology (Mon., 2-5)

Entomology and Parasitology (Mon. 9-11; Tues., Thurs., Fri., 9-12)

Introductory Epizootiology (Mon., Wed., 12-1)

Special Lectures (Mon., Wed., 11-12)

Elementary Statistics (Fri., 3-4)

Part II—Summer Term

Tropical Veterinary Hygiene and Epizootiology (Mon., Tues., Wed., Thurs., Fri., 10-11; Tues. and Thurs., 2-3).

Animal Nutrition in the Tropics (including Toxicology and Deficiency Diseases) (Mon., Wed., and Fri., 12-1).

Animal Breeding in the Tropics (including Livestock Improvement) (Tues. and Thurs., 9-10).

Animal Industries in the Tropics (Mon., Tues., Thurs., Fri., 11-12).

Special Lectures (Mon. and Fri., 2-3).

Demonstrations and excursions will be undertaken during this term.

Examinations

- (a) Bacteriology and Immunology (as applied to Tropical Veterinary Medicine) (written, practical and oral)
- (b) Tropical Veterinary Parasitology (including Protozoology, Entomology and Helminthology) (written, practical and oral)
- (c) Pathology of Animal Diseases in the Tropics (written, practical and oral).

Courses of Instruction (D.T.V.M. Univ. Edin.)

Part II. (a) Tropical Veterinary Hygiene and Epizootiology (written and oral)
(b) Tropical Animal Nutrition (written and oral)
(c) Animal Breeding in the Tropics (written and oral)
(d) Animal Industries in the Tropics (written and oral).

3. Instruction in the above subjects will be provided by the University.

4. Candidates must produce certificates to the effect that they have regularly attended each course of instruction and have satisfactorily performed the work thereof.

5. It shall be competent for the Faculty of Medicine to exempt from attendance on a course or courses, candidates who present evidence of special study and experience in the subject concerned.

6. Written, oral and practical examinations qualifying for the Diploma will be held at the end of the first and second parts (Part I, March and June; Part II, June and September.)

7. Candidates on the first occasion of presenting themselves for examination in each part must appear in all the subjects thereof.

8. If any candidate fails to pass in any part or parts of the examination it shall be competent for the Faculty of Medicine to require the candidate again to attend any course or courses of instruction before being re-admitted to examination.

9. Candidates will be required to matriculate for the academic year in which they attend courses of instruction or present themselves for examination.

COURSES OF INSTRUCTION

Bacteriology and Immunology

PROFESSOR CRICKSHANK; DR. A. WILSON TAYLOR, Senior Lecturer, and Dr. SWAIN, Reader; MR. J. E. PHILLIPS, MR. R. BURROWS and Dr. G. FRASER, Lecturers

The course consists of lectures, practical work and demonstrations on bacteriological and immunological subjects of special importance in Tropical Veterinary Medicine; including the general principles of immunity and their applications; virology and the virus infections of animals; the laboratory diagnosis of bacterial and virus diseases of animals in the tropics.

Opportunities will be given to members of the class to familiarise themselves with bacteriological and serological techniques.

Entomology and Parasitology

PROFESSOR SWANN; DR. KETTLE, DR. RAYSKI and Mrs. ADAM, Lecturers

Entomology: The study of the systematics, structure, biology, behaviour and bionomics of the arthropods of veterinary importance in the tropics. Emphasis will be on those features which contribute to the identification of important vectors, their role in the transmission of disease, and their control.

Protozoology: Structure, life cycles and physiology of those Protozoa which cause disease in livestock in tropical regions. In the practical classes instruction is given in methods of finding and recognising parasitic Protozoa maintained in laboratory animals.

Helminthology: Diagnostic features, life-history, bionomics and geographical distribution of the principal helminths of domestic animals in tropical countries. Consideration of factors conducive to the spread of helminthiasis and of control. Brief account of Acanthocephala and Hirudinea.

In the laboratory members of the class will study examples of adult and developmental stages of species of veterinary importance; instruction will also be given in the various techniques employed in helminthology.

Faculty of Medicine—Veterinary Medicine and Surgery

Pathology

Mr. BEATTIE, Senior Lecturer; Mr. W. K. HEAD, Mr. J. B. M. GELLATLY and Mr. J. C. WHITNEY, Lecturers

The course consists of lectures and practical work dealing with the pathology of the major diseases of domesticated animals in the tropics.

Tropical Veterinary Hygiene and Epizootiology

PROFESSOR ROBERTSON; Mr. A. CHALMERS, Senior Lecturer; Dr. MOODIE and Dr. J. E. WILSON, Lecturers

Diseases, surveys, records and statistics; influence of game and vermin on disease in stock.

General principles of veterinary hygiene as applied to tropical conditions.

Epidemiology of animal diseases in the tropics—methods of infection and dissemination, control, eradication and prevention.

Administrative measures, including animal disease ordinances; sociological aspects of colonial veterinary problems.

Animal Nutrition in the Tropics

PROFESSOR ROBERTSON; Dr. PAVER, Lecturer

Feeding of animals in the tropics; foodstuffs and fodder conservation; Deficiency diseases; poisonous plants.

Animal Breeding in the Tropics

PROFESSOR ROBERTSON; Mr. MAULE, Lecturer

Representative breeds of animals in tropical countries; the uses, breeding and management of animals in tropical countries; genetical aspects of livestock improvement and their application under tropical conditions.

Animal Industries in the Tropics

PROFESSOR ROBERTSON; Mr. FERGUSON, Senior Lecturer

Construction and management of abattoirs. Preparation, preservation and transportation of meat and meat products; refrigeration. Preparation and preservation of hides and skins. Production and distribution of milk and milk products. Marketing and transport of animals.

REGULATIONS FOR THE DIPLOMA IN VETERINARY STATE MEDICINE (D.V.S.M. Univ. Edin.)

1. Candidates for the diploma must be graduates in Veterinary Medicine and Surgery of the University of Edinburgh or hold corresponding Degrees or qualifications registrable with the Royal College of Veterinary Surgeons, or of such other universities or veterinary schools as are recognised for the purpose by the University Court.

2. A period of not less than one year shall normally have elapsed between the attainment by the candidate of a recognised veterinary qualification and the commencement of the course.

3. The curriculum for the diploma shall extend over an academic year.

Diploma in Veterinary State Medicine

4. The course shall comprise two terms of whole-time study in the University and one term of field training, gaining practical experience in:—

(a) diagnostic and investigational services in an approved veterinary laboratory, and,

(b) veterinary duties with a State or approved authority employing one or more whole-time veterinary surgeons;

(not less than 5 weeks to be spent in each of the above sections of field training).

5. The examination for the Diploma in Veterinary State Medicine shall be held twice yearly in June and September.

Admission to the examinations is contingent upon the candidate having complied with the following conditions:—

(a) Completion of the courses prescribed in para. 7.

(b) Possession of a certificate that the candidate has regularly attended the courses and duly performed the work thereof.

(c) Possession of certificates to show that the candidate has obtained the necessary field experience.

6. It shall be competent for the Faculty of Medicine to exempt from attendance on a course or courses, candidates who present evidence of special study and experience in a subject concerned.

7. The course of study which commences in October includes the following (figures in brackets denote the number of hours of instruction):—

(i) Bacteriology and Immunity as applied to Veterinary State Medicine	(180)
(ii) Veterinary Preventive and State Medicine	(50)
(iii) Food Hygiene	(110)
(iv) Meat Inspection	(30)
(v) Functions of Central and Local Authorities	(20)
(vi) Medical Statistics	(20)
(vii) Pathology as Applied to Veterinary State Medicine	(30)
(viii) Nutrition in Relation to Animal Health	(20)
(ix) History, Development and Work of Animal Health Services	(5)
(x) Genetics and Animal Health	(10)
(xi) Environment and Animal Health	(10)

8. Written, oral and practical examinations qualifying for the diploma will be held in the following subjects:—

(A) *Bacteriology, Pathology and Immunity as Applied to Veterinary State Medicine.*

The Bacteriology, Pathology and Immunology of the major infectious diseases of animals in the United Kingdom and such other animal diseases as are the subject of legislation.

(B) *Veterinary Preventive and State Medicine.*

The nature and sources of information bearing on the health of animals and its numerical presentation. Influence on animal health of heredity and environmental factors, including housing, nutrition, management and transport of animals. Mass aspects of animal disease and the field application of prophylactic methods, with particular reference to Schedule Diseases and diseases of animals transmissible to man. Administrative measures in relation to contagious diseases of animals, including the main provisions of the Diseases of Animals Acts and Orders.

(C) *Food Hygiene (including Meat and Milk Inspection and Control).*

(a) Meat Hygiene: Inspection of markets and slaughterhouses. The inspection of animals before and after slaughter. The general principles to be applied in the inspection of food of animal origin, and their particular application to the abnormalities commonly encountered in animals slaughtered for human food. Food preservation, methods and results. The etiology of food poisoning

Faculty of Medicine—Veterinary Medicine and Surgery

in man. Falsification and substitution of meat and meat products, and the means by which they may be detected. The laws affecting the sale of meat intended for the food of man. The disposal of offal and refuse.

(b) Dairy and Milk Hygiene: The sanitary production, processing and distribution of milk. The inspection of cows, cowsheds and dairies. The reading and preparation of plans. Milk as a source of infection in man. Methods and standards of milk examination. The provisions of Acts, Orders and Regulations dealing with Dairies, Cowsheds, Milk and Milk Shops. Bacteriological and chemical tests for cleanliness and safety of milk.

9. Candidates on the first occasion of presenting themselves for examination must appear in all three subjects but may be allowed to pass in separate subjects of the examination. In the case of a failure in any subject it shall be competent for the Faculty of Medicine to require the candidate to attend any further course or courses of instruction before being re-admitted to examination.

10. Candidates will be required to matriculate for the academic year in which they attend courses of instruction or present themselves for examination.

COURSES OF INSTRUCTION

Autumn Term

Functions of Central and Local Authorities (Mon. and Fri. 9-10).
Veterinary Public Health (Tues. 9-12 and 2-5; Wed. 11-12; Thurs. 9-12).
Medical Statistics (Mon. and Fri. 11-1).
Veterinary Preventive and State Medicine (Tues. and Thurs. 12-1).
Veterinary Bacteriology (Mon. 2-5; Thurs. 2-5).
Veterinary Pathology (Fri. 2-5).
Animal Breeding (Wed. 10-11).

Spring Term

Veterinary Public Health (Tues. 9-12; Wed. 11-12; Thurs. 9-12).
Medical Statistics (Fri. 9-10).
Veterinary Preventive and State Medicine (Mon. 11-12; Fri. 11-12).
Veterinary Bacteriology (Mon. 2-5; Tues. 2-5; Fri. 2-5).
Animal Nutrition (Mon. and Fri. 10-11).
Environmental Hygiene (Wed. 10-11).

Bacteriology and Immunity as Applied to Veterinary State Medicine

PROFESSOR CRUICKSHANK; Dr. A. WILSON TAYLOR, Senior Lecturer in Veterinary Bacteriology; Mr. J. E. PHILLIPS, Mr. R. BURROWS, Dr. G. FRASER, Lecturers

The bacteriology and immunology of the major infectious diseases of animals in the United Kingdom and of such other animal diseases as are the subject of legislation. Particular emphasis is laid on the practical aspect of the course.

Veterinary Preventive and State Medicine

PROFESSOR ROBERTSON; Mr. FERGUSON and Mr. CHALMERS, Senior Lecturers; Dr. MOODIE, Dr. PAVER, Mr. I. S. ROBERTSON and Dr. WILSON, Lecturers

General principles of veterinary hygiene and the role of breeding, feeding, housing and management in the promotion of health and the prevention and control of disease in animals. Epidemiology and prophylaxis of animal diseases with particular reference to scheduled diseases. Administrative measures concerned with animal diseases; artificial insemination and its legislative control; regulations for the prevention and spread of animal diseases; protection of animals during transit; export of livestock and animal products.

Diploma in Veterinary State Medicine

Veterinary Public Health

**PROFESSOR ROBERTSON; Mr. FERGUSON, Senior Lecturer;
Mr. NORVAL, Lecturer**

Diseases of animals transmissible to man and their control. Food hygiene and inspection with special reference to meat and milk. Construction and management of markets, abattoirs, etc. Preparation, storage and preservation of meat and meat products. Production, processing and distribution of milk. Inspection of cowsheds, dairies, etc. Methods and standards of milk examination. Legislation in relation to foodstuffs of animal origin.

Medical Statistics

Mr. SKLAROFF, Lecturer

Recording and collection of veterinary data for routine work and research; methods of tabulation and summary of raw data; common statistical values and their uses; types of morbidity and mortality rates; theory of sampling and the use and limitations of significance tests; design of field experiments and the use of control groups; verbal description of numerical data; graphical methods of presentation of numerical data.

Veterinary Pathology

**Mr. BEATTIE, Senior Lecturer; Mr. W. K. HEAD, Mr. J. B. M.
GELLATLY and Mr. J. C. WHITNEY, Lecturers**

The course consists of lectures and practical work dealing with the pathology of the major infectious diseases of animals in the United Kingdom and such other animal diseases as are the subject of legislation or are transmissible to man.

DIPLOMAS

The examinations for the various diplomas are held as follows:—

D.T.V.M.: Part I . . .	17th, 18th March
	16th, 17th June
Part II . . .	23rd, 24th June
	22nd, 23rd September
D.V.S.M.	9th, 10th June
	29th, 30th September

TIME-TABLE OF WRITTEN EXAMINATIONS FOR THE DEGREE OF B.V.M. & S.

Dates and times of examination are subject to revision. Due notice will be given on the notice-boards of the dates of oral, practical and clinical examinations, some of which may take place before the written examinations.

	Sept.-Dec. 1959	March 1960	June 1960	Sept. 1960
Physics	Sept. 19	17	2-4	24
Chemistry	17	2-4, 30	23	2-4, 30
Biology	17	10-12	25	10-12
Veterinary Anatomy and Histology . . . . .	..	14	9-12	..
Veterinary Physiology . . . . .	..	15	9-12	..
Veterinary Biochemistry . . . . .	..	15	2-4	..
Veterinary Pharmacology	24	9-12	23	9-12
Veterinary Pathology . . . . .	..	15	2-4	..
Veterinary Bacteriology . . . . .	..	14	10-12	..
Veterinary Parasitology . . . . .	..	10	2-4	..
Veterinary Hygiene	25	10-1	17	10-1
Veterinary Preventive and State Medicine . . . . .	..	11	10-12	..
Veterinary Obstetrics . . . . .	..	10	2-4	..
Veterinary Medicine	Dec. 3	9-12	23	9-12
Veterinary Surgery	4	9-12	24	9-12

¹ For those students who are given special permission to appear.

FACULTY OF MEDICINE
FELLOWSHIPS, SCHOLARSHIPS,
BURSARIES AND PRIZES

FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS, BURSARIES, AND PRIZES

General Conditions of Candidature, Tenure, and Payment

(i) Both men and women are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

(ii) Holders of undergraduate bursaries or scholarships must submit to the Heads of the Departments concerned in the summer term, on completion of their class attendance, evidence that the conditions of tenure of their awards have been fulfilled, and that they have made satisfactory progress.

(iii) Holders of post-graduate fellowships or scholarships must submit to the Heads of the Departments concerned, in May and October, evidence that they have prosecuted post-graduate study or research or otherwise fulfilled the conditions of tenure of their awards and that they have made satisfactory progress.

(iv) All holders of fellowships, scholarships, bursaries, and prizes must obtain certificates signed by the Dean, on the advice of the Heads of Departments where necessary, attesting the fulfilment of the conditions of tenure.

(v) On production of such certificates, payments of fellowships, scholarships, bursaries and prizes (except those in the hands of agents outside the University) are made by the University Accountant as follows:—First instalments from 15th October¹; second instalments from 19th May or after completion of class attendance as certified by the Dean.²

(vi) When any holder desires to resign a fellowship or scholarship, formal intimation should be made to the Dean of the Faculty of Medicine, and to the University Accountant, and the date notified from which resignation is to take effect. Those who do not apply within three months to the University Accountant for the instalment due to them will be regarded as having resigned.

(vii) The Senatus, at its discretion and on the recommendation of the Faculty of Medicine, may increase in any academical year the number of undergraduate scholarships and or research fellowships and scholarships beyond that stated.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES AND PRIZES

I

Entrance Bursaries

The following entrance bursaries (see under "Entrance Bursaries") are tenable in the Faculty of Medicine:—

(a) Entrance Bursaries awarded by the University.

Anderson	McDiarmid
Archibald or M'Guffie	Macdonald (William)
Ardvorlich	Mackenzie (Stornoway)
Beattie (John)	Maclaurin
Browne	Mann
Bruce of Grangchill	Marshall
Campbell (Robert Mackenzie)	Maule
Chrystie	Penman

¹ On special cause being shown and with the express approval of the Dean, payment of fellowships and scholarships may be made in one instalment for any one year.

² Payments are made without deduction of income tax but are assessable if not exempted under section 458 of the Income Tax Act 1952:—

"Income arising from a scholarship held by a person receiving full-time instruction at a university, college or school, or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

Fellowships, Scholarships, etc.

Crichton
Fairbairn (James)
Grant
Grierson
Jamieson
Jardine of Thorlieshope

Renton
Sibbald
Sibbald Medical
Thomson (a)
Vans Dunlop

(b) Entrance Bursaries awarded by Outside Bodies.

Abercromby
Baxter of Balgavies
Borderers' (Edinburgh) Association
(a), (b), and (c)
Caithness (Edinburgh) Association
Clan Mackay Society (a), (b) and (c)
Cowan House Residential Scholarships
Grigor
Highlands and Islands Education Trust
(a), (b), (c), and (d)
Inverness-shire (London) Association
Lanarkshire (Upper Ward of) Association
Lewis

Maclean (Alexander)
Milligan-Paulin
Miners' Welfare National
Scholarships and
Exhibitions
Morayshire (Edinburgh)
Nairn
Newland (John)
Paterson (Sara) (b)
Rackstraw (Marjorie)
Robertson (Archibald)
Simson
Simson Fowler
Wood

II

Fellowships and Scholarships included in the Edinburgh University (Fellowships, Scholarships, and Bursaries) Scheme, 1953

A. FELLOWSHIPS AND SCHOLARSHIPS IN THE MEDICAL FACULTY SCHOLARSHIP FUND

In terms of the above named Scheme the following funds have been amalgamated to form a Medical Faculty Scholarship Fund:—Allan Fellowship Funds Crichton Fund, Davidson Fellowship Fund, Fullerton Research Scholarship Fund, William Goodall Gibson Fellowship Fund, Goodsir Memorial Prize Fund, George Guthrie Fellowship Fund, Hastilow Research Scholarship Fund, Houldsworth Scholarship Fund, Walter Smith Kay Scholarship Fund, Leckie-Mactier Fellowship Fund, McCosh Medical Graduates' Fund, Paterson Travelling Scholarship Fund, Stark Scholarship Fund, Hunter Stewart Scholarship Fund, Syme Surgical Fellowship Fund, Whaitt Research Scholarship Fund, Wilkie Scholarship Fund, Vans-Dunlop Scholarship Fund, Gunning (Victoria Jubilee) Medical Fund.

Awards of Fellowships and Scholarships will be made from the Medical Faculty Scholarship Fund under the following conditions:—

(a) Undergraduate Bursaries and Scholarships

(i) Four Scholarships shall be open to undergraduate students in the Faculty of Medicine for the prosecution of advanced courses of study, for example, an Honours course of instruction for the Degree of Bachelor of Science in a pre-clinical subject.

(ii) Each such Scholarship shall be of the annual value of £250, subject to the right of the Senatus on the recommendation of the Faculty of Medicine to reduce the amount in consideration of any Local Authority or other award to which the holder may be entitled.

Faculty of Medicine

(iii) Each Scholarship shall be tenable for one year, but in certain circumstances and on the recommendation of the Faculty of Medicine may be renewable for one further year.

(iv) Each applicant must have satisfactorily completed in the University of Edinburgh a course of instruction which, in the opinion of the Head of the Department concerned, qualifies for admission to the appropriate course of advanced study.

(v) Applications for undergraduate Scholarships must be made through the Head of the appropriate Department by 30th May, in time to be considered by the Faculty of Medicine at their first meeting in June of each year.

(vi) Notices of undergraduate Scholarship vacancies shall be displayed in the pre-clinical departments of the Faculty of Medicine at the beginning of the summer term of each academical year.

(b) Graduate Scholarships and Fellowships

1. Research Scholarships:—

(i) Four Research Scholarships are offered for award, each tenable for one year, and in certain circumstances renewable for a second year.

(ii) For the first year the minimum value of such Scholarships shall be £500, and for the second year £600.

(iii) The Scholarships shall be open to graduates in the Faculty of Medicine of any university; to graduates in the Faculties of Arts or Science of any university who hold an Honours Degree; and to licentiates in Medicine.

(iv) The Scholarships shall not be open for award to any applicant who, excluding any period spent in National Service, has held a degree or licence for longer than three years.

(v) Those to whom awards are made shall be required to undertake research work in a Department within the Faculty of Medicine.

(vi) The Scholarships will normally be awarded at the beginning of each academic year, after advertisement during the preceding summer term in suitable professional and lay journals and publications, in the University of Edinburgh and in teaching hospitals associated therewith.

(vii) Applications must be lodged with the Dean of the Faculty of Medicine by 30th April, accompanied by a statement of the work to be undertaken by the applicant, approved by the Head of the Department concerned.

2. Research Fellowships:—

(i) Three Research Fellowships are offered for award, each tenable for one year, renewable for a second year and, in special circumstances, for a third year.

(ii) For the first year the minimum value of such Fellowships will be £700, for a second year £800, and where awarded for a third year, £900.

(iii) Research Fellowships shall be open to graduates in the Faculty of Medicine of any University; to graduates in the Faculties of Arts or Science of any University who hold an Honours Degree; and to licentiates in Medicine.

(iv) Those to whom awards are made shall be required to undertake research work in a Department within the Faculty of Medicine.

(v) The Research Fellowships will normally be awarded at the beginning of each academic year, having been duly advertised in suitable professional and lay journals and publications, in the University of Edinburgh and in teaching hospitals associated therewith.

Fellowships, Scholarships, etc.

(vi) Applications must be submitted to the Dean of the Faculty of Medicine by 30th April. Applications should be accompanied by a statement of the work which the applicant proposes to undertake, approved by the Head of the Department concerned.

3. *Travelling Scholarships*:—

(i) There shall be available in each year a maximum of six Travelling Scholarships, each of the maximum value of £100.

(ii) These shall be open for award to any professional or technical member of staff of, or research worker attached to, any Department within the Faculty of Medicine, being graduates of a University or licentiates in Medicine, and are awarded by the Senatus on the recommendation, through the Faculty of Medicine, of the Head of the Department concerned, who shall state the object of the journey proposed by the applicant.

(iii) The holder of a Travelling Scholarship shall, on his return to the University, submit to the Dean of the Faculty of Medicine, through the Head of the Department concerned, a report in writing of the professional duties carried out during the period of travel covered by the Scholarship grant.

When a Fellowship or Scholarship is awarded in one of the following subjects it shall be called by the name set forth opposite to the said subject, namely:—

Subject	Name
Anatomy or Physiology	Goodsir Memorial Fellowship
Bacteriology	Davidson Research Fellowship
Cancer or Rheumatism	Hastilow Research Fellowship
Child Life and Health	George Guthrie Research Fellowship
Clinical Medicine	Stark Scholarship
Clinical Medicine and Clinical Surgery	Allan Fellowship
Medicine, Clinical Medicine and	
Therapeutics	William Goodall Gibson Fellowship
Pharmacology	Houldsworth Scholarship
Psychological Medicine	Walter Smith Kay Research Fellowship
Public Health and Social Medicine .	Hunter Stewart Scholarship
Surgery	Paterson Travelling Scholarship or Syme Surgical Fellowship or Wilkie Scholarship

When a Fellowship or Scholarship is awarded in any other subject it will be associated with one of the following names:—Crichton Scholarship, Fullerton Research Scholarship, Gunning Research Scholarship, Leckie-Mactier Fellowship, McCosh Bursary, Vans-Dunlop Scholarship, Whaitt Research Scholarship.

Research Fellows—1959, Jean-Marie de Margerie, B.A., M.D.; R. A. Harkness, M.B., Ch.B.; J. M. M. Neilson, B.Sc.; Elspeth M. Russell, M.B., Ch.B.

Research Scholars—1959, Phyllis M. Fulton, M.B., Ch.B.; J. T. Hamilton, B.Sc.; W. J. Irvine, B.Sc., M.B., Ch.B.; R. Levy, M.B., Ch.B.; I. W. Sutherland, B.Sc.

Travelling Scholars—1959, A. E. Stuart, M.B., Ch.B., Ph.D.; J. H. Bowic, M.B., Ch.B.

Undergraduate Scholars—1959, Kathleen R. M. Brooks, P. W. Brooks, J. A. Calvert, D. W. Dingwall, R. B. Ewart, W. Fitch, I. D. S. Gillies, M. R. Higgins, L. H. Honoré, J. S. Kelly.

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B. OTHER AWARDS ALSO INCLUDED IN THE EDINBURGH UNIVERSITY (FELLOWSHIPS, SCHOLARSHIPS AND BURSARIES) SCHEME 1953

Coldstream Memorial Medical Missionary Bursary.—One bursary of such annual value as may from time to time be fixed and tenable for such a period as is necessary to enable the holder to graduate; awarded to a student who proposes to devote his or her life to the calling of a medical missionary, provided that he or she is a member of an evangelical denomination of Christians recognised as such by the Edinburgh Medical Missionary Society. Candidates who are about to begin their medical studies shall undergo the Entrance Bursary examination (see Programme of Entrance Bursaries). Other candidates shall undergo such examination as may be approved. Apply for particulars to the Dean, with whom applications must be lodged by 31st March.

1955, D. J. Harrison, B.Sc.

Ellis Prize in Physiology.—£100.—Awarded at intervals of not more than three years for an essay or treatise of sufficient merit which embodies original research in the field of Animal or Plant Physiology. The competition shall be open to Bachelors of Medicine and Bachelors of Surgery and to Bachelors of Science of the University, in each case of not more than five years' standing at the time of award, and to matriculated students of the University, essays to be lodged with the Dean by 31st May 1960.

1958, Sybil M. Lloyd, B.Sc.

Gunning Medical Bursaries.—Bursaries of £100 for one year; awarded to matriculated students who must undertake a course of advanced study in one of the departments of the Faculty and who during their tenure of the bursaries may not attend any of the classes in the regular Medical curriculum without the consent of the Senatus. Apply to the Dean by 1st October.

1959, J. G. Clark, D. Dalrymple-Smith, G. W. K. Donaldson, B.Sc., I. M. L. Donaldson, B.Sc.; W. P. U. Kennedy; G. E. Mawer, B.Sc.; J. F. Munro; J. J. B. Petrie, B.Sc., J. R. Philp.

Gunning Victoria Jubilee Fund Prizes.—Prizes of £50: (a) the Alison for Public Health, (b) the Bell for Physiology, (c) the Black (Joseph) for Chemistry, (d) the Christison for Materia Medica, (e) the Forbes (Edward) for Zoology, (f) the Gregory for the Practice of Physic, (g) the Hutton Balfour for Botany, (h) the Lister for Surgery, (i) the MacLagan for Forensic Medicine, (j) the Monro for Anatomy, (k) the Simpson for Obstetrics, (l) the Thomson for Pathology, and (m) two (or more) additional prizes in such subjects as the Faculty of Medicine shall determine; the prizes from (a) to (l) each to be awarded once in three years, and the prizes (m) every year, for competitive essays, or for graduation theses, or for original research conducted under the Professor of the department to which the prizes are respectively attached, to Bachelors of Medicine and of Surgery or to Bachelors of Science of the University of not more than five years' standing at the time of the award. Essays to be lodged with the Dean by 15th May. The prizes open for award in 1958 are (e), (g), (h), (l) and Physiology (m), Surgical Science (m), and Therapeutics (m).

1959, J. A. Kerr, B.Sc., Ph.D., and A. Nicholson, B.Sc., Ph.D. (c); E. W. Horton, B.Sc., M.B., Ch.B., Ph.D. (d); J. W. Irvine, B.Sc., M.B., Ch.B. (e).

Vans-Dunlop Prizes.—Two prizes of £50:—(a) in Biology; (b) in Chemistry and Physics; each awarded annually on the combined results of the class and professional examinations in the two subjects of each prize, to matriculated students in Medicine.

1959, Judith M. Spratt and C. M. Steel (a); Penelope A. M. Sang and Judith M. Spratt (b).

III

Other Fellowships, Scholarships, Bursaries, and Prizes

Awards open only to B.D.S. students are marked *. Awards open only to B.V.M. & S. students are marked †. The values of awards are stated approximately.

†**Agricultural Research Council, Veterinary Research Fellowships.**—The Agricultural Research Council awards Fellowships tenable for three years valued at £850 per annum to research workers holding a veterinary qualification who have had not less than three years' experience in veterinary research. Applications should be sent to the Secretary, Agricultural Research Council, Cunard Building, 15 Regent Street, London, S.W.1.

Anderson Henry Prize.—£80; awarded triennially for the best essay on a botanical subject set by the Professor of Botany, the Curator of the Royal Botanic Garden, Edinburgh, and the President of the Botanical Society of Edinburgh, to an undergraduate who has attended the Botany class during any of the three years before the award. Essays to be lodged with the Dean by 6th June 1961. The subject to be announced.

1958, R. B. Knox and K. S. Stewart.

Annandale Gold Medal in Clinical Surgery.—Awarded annually to the M.B., Ch.B. candidate most distinguished in Clinical Surgery who has attended the qualifying course in Clinical Surgery and is graduating or is entitled to graduate at the summer Medical graduation.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Arnott (Neil) Prize for Experimental Physics.—£80; awarded annually on the basis of the M.A. degree examination in Natural Philosophy, with such additional examination in experimental Physics as the examiners may require, to a student of Medicine who must have attended Medical classes at the University for at least a summer or a winter session but who has not completed more than three *anni medici*, and who has never competed for the prize before. The holder must continue as a student of Medicine at the University during the winter session following the award or forfeit the prize to the competitor next in merit. If no student with the above qualification offers himself for the prize, it will be awarded to the student in Arts who passes the M.A. degree examination in Natural Philosophy with the most distinction. Apply to the Matriculation Office by 15th September.

1958, M. P. Baguant.

***Ash Prize.**—£15, 15s.; awarded annually to the student who shows the greatest proficiency in Oral Pathology, provided the standard attained is sufficient to justify the award.

1959, J. F. Gould, M.B., Ch.B., B.D.S.

Beancy Prize.—£40; awarded annually, if a candidate of sufficient merit appears, to the graduate in Medicine of the year who, after attending the necessary qualifying courses in Anatomy, Clinical Surgery and Surgery, obtained the highest marks in these subjects for the M.B., Ch.B. degrees.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Bell Graham Bequest.—The income of this fund is used to assist women from Dumfriesshire who are students in the Faculty of Medicine. Apply to the Dean by 1st October.

1958, No award.

Bevan (Llewellyn) Prize.—This prize of the value of about £80 may be awarded, in alternate years, to a graduate in Medicine of the University of Edinburgh for the best and approved essay on the Pathology and Treatment of Menière's or other Disease of the Internal Ear. Essays in competition for

Faculty of Medicine

the prize must be submitted to the Dean of the Faculty of Medicine not later than 31st October 1959.

1957, M. E. S. Harrison, M.D., F.R.C.S., F.R.C.P.E.

Bevan (William Llewellyn Pryce) Bequest.—The income from this fund is applied to the promotion of the teaching or the advance of medical science. Apply (on a prescribed form) to the Dean by 31st October or 30th April.

Biggam (Colonel Thomas) Memorial Medal and Prize in Pathology.—Awarded annually on the basis of the class-work and class examinations and the Professional examination (and, if necessary, an oral examination) in Pathology to the best undergraduate member of the class during the full course immediately preceding the award who has passed the Professional examination in the subject.

1959, A. A. H. Lawson.

Boots (The) Research Fellowship in Nursing.—£850 p.a. together with up to £150 p.a. for approved expenses associated with the work of the Fellow; not available after 1959; tenable for such a period as may be required to complete the investigation to be undertaken; open to candidates not medically qualified but preference is given to those who hold a degree or otherwise possess suitable qualifications. The Fellowship is attached to the Department of Public Health and Social Medicine. For further particulars, apply to the Dean.

1959-60, Margaret Scott Wright, M.A., S.C.M., S.R.N.

Boots Drummond Memorial Prize in Biochemistry.—£10; awarded annually on the recommendation of the Professor of Medical Chemistry to the most distinguished undergraduate student in the course of Biochemistry in the Faculty of Medicine, or in the third year course of Biochemistry in the Faculty of Science.

1959, R. B. Ewart.

***Bowman Macleod Bursary in Dental Mechanics.**—£10, 10s.; awarded annually after competition in a practical examination; open to students who gain not less than 70 per cent. in the class examination in Dental Mechanics (Lectures). If the highest marks gained in the practical examination are less than 70 per cent. of the marks attainable, the Bursary will not be awarded.

1959, No award.

Brunton (Lauder) Prize in Pharmacology and Therapeutics.—£3; awarded annually in the form of a medal and a sum of money to the graduate in Medicine of not more than five years' standing or to the undergraduate in Medicine who most highly distinguishes himself in the department of Materia Medica or of Therapeutics.

1959, G. W. K. Donaldson, B.Sc.

Buchanan Scholarship.—£34 for one year; awarded annually to the graduate in Medicine in the year of the award who has shown the highest proficiency in Midwifery and Gynaecology, as proved by (a) the class examinations in Midwifery and Diseases of Women and Children; (b) his records of cases treated in the gynaecological wards of the Royal Infirmary; and (c) the final examinations for the M.B., Ch.B. degrees.

1959, A. W. Dellipiani, M.B., Ch.B.

Caird (Francis Mitchell) Prize.—£18; awarded triennially in the form of a medal and a sum of money for an essay of sufficient merit on a subject in Surgery or Surgical Pathology (which the candidates may choose and which records their personal observation and research), to a graduate in Medicine of the University or to a licentiate or fellow of the Royal College of Surgeons of Edinburgh who has studied in Edinburgh for at least two years and has been qualified as a practitioner for not more than seven years. Essays to be lodged

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with the Dean or with the Secretary of the Royal College of Surgeons of Edinburgh, Nicolson Street, Edinburgh 8, by 1st May.

1958, No award.

Cameron Prize.—£300; awarded biennially, if the Senatus thinks an award justified, to a person who in the five years immediately preceding has made any highly important and valuable addition to Practical Therapeutics. The winner of the prize may be required to deliver a lecture or course of lectures on, or to publish as the Senatus may prescribe an account of his contribution to Practical Therapeutics.

1958, Professor C. B. Huggins, S.M., M.D., Sc.D.

Cameron (Lewis) Post-graduate Prize.—£45; awarded annually, if a candidate of sufficient merit offers, to a graduate of not more than five years' standing from the date of last obtaining a bachelor's degree in the University who submits the best paper or papers (published or in manuscript) embodying the results of original work relating to the diagnosis of disease. No candidate may hold the prize more than once. Candidates must be matriculated for the year of the competition. Papers to be lodged with the Dean by 5th April.

1946-59, No award.

Cameron (Lewis) Research Fund.—The income of this Fund is used to meet the cost of equipment, apparatus, animals, and materials, or for other purposes in connection with research in Bacteriology and the diagnosis of disease. All equipment, etc., of permanent value purchased with grants from the fund become the property of the Department concerned. Heads of Departments must apply to the Dean by the third Monday in June.

Cameron (Lewis) Undergraduate Prize.—£45; awarded annually, if a candidate of sufficient merit appears, to a B.Sc. or an M.B., Ch.B. student for the best paper at a special examination (written, and, if necessary, also oral or practical) at the end of the summer term in Bacteriology, including Immunology. No candidate may hold the prize more than once. Apply to the Dean by 31st May. The subject for 1960 will be announced.

1959, J. D. Cash, B.Sc.

Carlyle (John Aitken) Bursaries.—Two bursaries of £26 for one year; one (a) awarded on the results of the class examinations in Anatomy (second year) and Biochemistry (second and third years); the other (b) awarded at the end of the whole course in Anatomy and Physiology on the results of the class examinations in these subjects.

1959, R. B. Ewart (a); J. A. Phillips (b).

Chiene Medal in Surgery.—Awarded annually (if two or more candidates present themselves), with £13 in money, to the graduate in Medicine who most highly distinguishes himself in the Ch.M. degree examination. The thesis for the Ch.M. degree will not be taken into consideration for the award.

1959, H. B. Torrance, Ch.M.

Clark Fellowship of the Edinburgh Pathological Club.—This Fellowship, created on the basis of a generous bequest by the late Dr. Alexander W. G. Clark of Stoneyburn House, Fauldhouse, West Lothian, is awarded from time to time by the Committee of the Edinburgh Pathological Club and is usually to the value of about £100 p.a. but may be varied to suit circumstances. The Fellow must be a worker in Edinburgh and should preferably be a member of the Edinburgh Pathological Club, but need not be medically qualified. The Fellowship is tenable at the same time as any other teaching or clinical appointment. The award is made conditional upon the Fellow delivering to the Edinburgh Pathological Club, at some stage during the tenure of the Fellowship, a lecture dealing with some aspect of original research on cancer. The first award will be 1st January 1960. Applications should be sent to the Secretary of the Edinburgh Pathological Club, Pathology Dept., Teviot Place 8, by 1st November.

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Conan Doyle Prize.—£55; awarded annually to the graduate in Medicine of the year who has lived at least ten years in South Africa and who has most distinguished himself in the various professional examinations.

1959, M. J. Dell, B.A., B.Sc., M.B., Ch.B.

Cropper (James) Scholarships.—Three scholarships of £18 p.a. for 3 years; awarded triennially, on the recommendation of the Faculty and if necessary on the basis of an examination, to women students, natives of India, who are studying in Edinburgh with a view to graduating in Medicine in the University; failing any such suitable candidate, to any other women students in Medicine, those declaring their intention to work in India having a preference. Apply to the Secretary to the University by 1st October.

1959, Chandrakha Singh.

***Cumming (Peter) Prize.**—£20; awarded annually in September to the third year student who has at the first opportunity attained the highest marks in the Professional Examinations in Anatomy and Physiology and Dental Anatomy and Histology and whose work is regarded by the examiners as sufficiently distinguished.

1958, D. E. Jones.

Cunningham Memorial Medal in Anatomy.—Awarded annually with a sum of money to the student who, having attended the whole course in Anatomy and having passed the Second Professional Examination, is considered to be the most distinguished student of the year in Anatomy.

1959, D. W. Dingwall.

***Dall Medal.**—A bronze medal awarded to the student who during his course in Practical Dental Mechanics receives the highest marks for the making of a specified porcelain restoration.

1959, No award.

†**Dick (William) Prize.**—A gold medal and a sum of money, to be awarded annually to the most distinguished Bachelor of Veterinary Medicine and Surgery in the year of the award.

1959, Marjorie A. Davis, B.V.M. & S., and G. H. K. Lawson, B.V.M. & S.

Dobbie Smith Prize in Botany.—A gold medal awarded in alternate years to a student matriculated in the year of the award, for an essay, accompanied by a series of illustrative specimens, on a botanical subject. Essays to be lodged with the Dean by 6th June. Open in 1960.

1941-59, No award.

Douglas (Isabella) Scholarship.—Open at the discretion of the Faculty for award for the study of acute and chronic rheumatic diseases and of kindred medical diseases of the locomotory system. The scholarship shall be open to graduates in Medicine or Science of any university. The holder will be required to work in the appropriate Departments of the University or another recognised University or a similar Medical Research Centre at home or abroad. Intimation will be made of the date when the scholarship will first be available.

Ettles Scholarship.—£53 for one year; awarded annually to the most distinguished Bachelor of Medicine and of Surgery in the year of the award.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Foulis (James), M.D., F.R.C.P.E., Bursary.—The income of this fund will be applied by the Faculty of Medicine for the benefit of deserving medical students who require pecuniary aid. Apply to the Dean.

Freeland Barbour Fellowship.—£250; awarded biennially to a Bachelor of Medicine and of Surgery who, having taken a high place in Anatomy, Physiology, and Pathology in the professional examinations, is judged by the Faculty on the report of a committee to be most capable of carrying out research.

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The holder must devote at least a year to research (which may include both clinical and laboratory investigation) in Midwifery or Diseases of Women, in the University or in any other medical school approved by the committee. Apply to the Dean by 3rd July. Open in 1959.

1953-58, No award.

†**Gemmell Prize.**—Awarded annually to the student who at his first appearance obtains the highest aggregate marks in the class and degree examinations in Chemistry and Biochemistry provided that in the opinion of the Faculty of Medicine and the Board of Veterinary Studies the number of marks gained is sufficient to justify the award.

1959, Brenda M. Broome.

Gillfillan (Dorothy) Memorial Prize.—£18; awarded annually to the woman student most distinguished in the final M.B., Ch.B. examination.

1959, Lilian E. Murchison, M.B., Ch.B.

***Goldie Prizes for Dental Mechanics.**—Two prizes, a first (*a*) of £10 and a second (*b*) of £7; awarded annually to the two students obtaining the highest total marks after competition in an oral examination in Dental Mechanics open to students who gain not less than 70 per cent. of the marks attainable for the prescribed course of Practical Dental Mechanics. In the event of the two students being of equal merit the prizes shall be £8, 10s. each.

1958, D. F. Jones (*a*).

Greig Fund for Research in Tropical Medicine and Veterinary Medicine.—The income from this fund is available for approved research in Tropical Medicine. The Fund is also available, in the discretion of the Faculty of Medicine, for approved research in Tropical Veterinary Medicine, particularly where that can be shown to have a relationship to human health.

Greig Medal for Tropical Medicine.—A silver medal; to be offered annually for competition to candidates for the Diploma in Tropical Medicine of the University; to be awarded to the most distinguished student of the year in the courses and examinations for the Diploma. If necessary, a special examination may be held. No award shall be made if the standard attained is inadequate.

1959, B. Mitra, M.B., B.S., and D. Ogston, M.B., Ch.B.

***Greig Medal for Tropical Veterinary Medicine.**—The conditions for award of this medal are, *mutatis mutandis*, the same as for the medal in Tropical Medicine.

1959, G. D. Paine, M.R.C.V.S.

***Guy (William) Medal.**—A bronze medal, awarded to the best senior student on the result of a written and practical examination in Extractions and Anaesthetics.

1959, J. F. Gould, M.B., Ch.B., B.D.S.

***Hepburn Prize for Dental Hospital Practice.**—£10, 10s.; awarded to the best junior student in Dental Hospital Practice, the prize money to be expended on dental books and/or instruments.

1959, J. F. Mitchell.

Jamieson (E. B.) Prizes in Anatomy.—Prizes, none exceeding £20 and none less than £5, awarded on the recommendation of the Professor of Anatomy to undergraduates in the Faculty of Medicine studying for the degrees of M.B., Ch.B. of the University after an examination held immediately before or immediately after the beginning of the first term of their final year. The subject of the examination is the topographical anatomy of the adult human body. Prizes shall not be awarded to candidates who do not attain a prescribed standard in the examination. Entries to be lodged with the Dean by 1st September.

1958, A. Dumbreck and C. M. Mailer.

Jones (Sir Robert) Prize for Orthopaedic Surgery.—£7; awarded annually for the best report and commentary on six orthopaedic cases treated in the Royal Infirmary, or the Eastern, the Northern, or the Western General Hospital,

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or the Princess Margaret Rose Hospital, during the writer's membership of the class of Clinical Surgery, to a student who has attended the University course of Systematic Surgery and a qualifying course at the Royal Infirmary in Clinical Surgery. Candidates must obtain the permission of the surgeon of the ward to report on any case under his charge; they are reminded that such permission does not give them authority to publish the case. Reports to be lodged with the Dean by 6th June.

1959, No award.

Keith (Thomas) Memorial Prize in Systematic Surgery.—£25; awarded annually to the graduate in Medicine who has obtained the highest marks in the class examinations and the Final Professional examinations in Systematic Surgery.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Kinghorn Bequest.—The income from this fund is applied to the promotion of medical research. Apply (on a prescribed form) to the Dean by 31st October, or 30th April.

Lawson Gifford Prize.—Books to the value of £27; awarded annually to a graduate in Medicine and Surgery in the year of the award who has done the best work in the courses and examinations in Gynaecology and Obstetrics during the preceding twelve months.

1959, Margaret L. S. Murray, M.B., Ch.B.

Leslie Gold Medal in Medicine.—Awarded annually to the most distinguished student in Medicine.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Leslie (William) Prize in Medicine.—£100 awarded each year. Candidates must be graduates in Medicine and Surgery of not more than five years' standing who have been engaged in medical work in the South-Eastern (Scotland) Area and are not above the grade of lecturer in the University or Senior Registrar in the Hospital Service who presents a paper published or in manuscript of sufficient merit relating to either clinical or experimental medical investigation. Papers to be lodged with the Dean by 30th April.

1959, No award.

Leslie (William) Prize in Surgery.—£100 awarded each year. Candidates must be graduates in Medicine and Surgery of not more than five years' standing who have been engaged in surgical work in the South-Eastern (Scotland) Area and are not above the grade of lecturer in the University or Senior Registrar in the Hospital Service who presents, published or unpublished, a paper of sufficient merit relating to either clinical or experimental surgical investigation. Papers to be lodged with the Dean by 30th April.

1959, No award.

Macarthur Post-graduate Lectureship in Medicine.—The Lectureship, in the Faculty of Medicine, was instituted in 1949 following a bequest by the late Dr. W. F. Macarthur. Appointments to the Lectureship are made on the recommendation of the Faculty.

1959, Dr. J. G. Scadding, Dr. D. T. Vail, Dr. Paul Beeson, Dr. A. Uihlein, Group-Captain R. C. Jackson, Dr. R. Doll.

McCunn Medical Scholarships.—Scholarships for (1) Medical Research, (2) Higher Education and (3) Travelling Scholarships are open to graduates in Medicine of the four Scottish Universities.

Research Scholarships: Tenable for one year and not normally exceeding £500 but renewable in the discretion of the trustees. They are granted for original research in any of the following subjects:—Medicine including Psychiatry; Surgery including Orthopaedics; Medical and Surgical Paediatrics and Child

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Health; Pathology including Pathological Chemistry; Bacteriology including Virology; Therapeutics including Pharmacology; Obstetrics and Gynaecology; Hygiene and Public Health; Radiology and Electronics; Physiology and Physiological Chemistry.

Scholarships for Higher Education may be granted to Medical graduates who are preparing for higher degrees or diplomas. Tenable for three months and not normally exceeding £225.

Travelling Scholarships: Normally about £100 and tenable for such period less than one year as the trustees may decide after consideration of an approved itinerary.

Candidates for Scholarships must be nominated by a Professor or Lecturer in a Scottish University or by a Teacher in Scotland recognised for the purpose of graduation in Medicine by a Scottish University. Nominations must be made on a printed form (to be had on application in writing only) to the Secretaries. Messrs. Mitchells Johnston & Co., 160 West George Street, Glasgow, C. 2, and must be lodged with them not later than 1st September. The conditions governing the Scholarships are given in the nomination form.

Four Scholarships will be available in each academic year of such one or more of the three classes as the trustees may decide.

†Macdougall (Stewart) Prize.—Awarded to the student who obtains the highest aggregate marks in the class and degree examinations in Biology, provided that in the opinion of the Faculty of Medicine and the Board of Veterinary Studies, the number of marks gained is sufficient to justify the award. 1958, W. P. Taylor.

McGhie Fund for Research into Mental and Nervous Disorders.—The income of this Fund is applied in consultation with the Professor of Psychological Medicine to the promotion of research into mental and nervous disorders. Grants are made for the purchase of equipment, the employment of temporary staff, or for the provision of training in specialised techniques. Applications should be made to the Professor of Psychological Medicine before the 1st of April of each year, but may also be considered at other times.

MacGillivray Prize.—£3, 3s.; awarded annually to the most distinguished student in Biology in the first-year course in Medicine. 1959, Judith M. Spratt and C. M. Steel.

***MacGregor Gold Medal.**—Awarded to the most distinguished Bachelor of Dental Surgery in the year of award. 1958, No award.

Macgregor (Jessie) Prize.—£50 or such larger sum as may be determined by the Trustees, awarded triennially for the best record of original work in Medicine (unpublished or published not earlier than three years before July of the year of award) to a woman who is a graduate in Medicine of the University or who has taken the Triple Qualification and who before becoming qualified studied Medicine for at least a year in Edinburgh. Apply for particulars to the Convener of Trustees for the Dr. Jessie Macgregor Prize, 9 Queen Street, Edinburgh, by 30th June 1961.

1958, Helen N. Duke, M.B., Ch.B., Ph.D.

Mackenzie Bursaries.—Four bursaries of £13 for one year; awarded annually to students in the Anatomy classes for the best general work in the dissecting-room.

1959, S. K. Littmann, B.A., J. B. MacMillan, R. C. Haynes, Janet M. Kirk.

Mackie Bursaries.—Two bursaries of £28 p.a. for 2 years; awarded to students in Medicine who in the opinion of the Faculty require pecuniary assistance, one (a) to a student at the end of his second year, and the other (b) to a student at the end of his third year. If no appointment is made to either bursary when it is vacant, the Senatus, on the recommendation of the Faculty, may appoint to the vacant bursary any student in Medicine at the

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end of his second or his third year who otherwise satisfies the conditions. Open in October 1960. Apply to the Dean by 1st October.

1958, E. McPhedran and Ahmed M. Patel.

MacLagan Prize.—£14; awarded annually to the best student in the Medical class of Forensic Medicine.

1959, Eleanor R. Chalmers and Heather S. Morris.

M'Laren (Lawrence) Bequest.—The income of this fund provides grants to graduates in Medicine, Arts or Science of the University of Edinburgh or other university who desire to undertake research, to be carried out under the Professor of Psychological Medicine, on brain and nerve troubles. Apply, with a statement of qualifications and the research proposed, to the Dean by 1st October.

1959, H. Bethune, M.B., Ch.B.

Macnaughton (George William Falconer) Bursary in Physiology.—Tenable for one year, and of the value of about £57, may be awarded annually at the end of the spring term of the third year to a medical student of the University who has attended the class of Physiology during the academic year immediately preceding the award. The award of the bursary will be determined on the standard of work performed during five terms in the class of Physiology and Biochemistry and on the results obtained by candidates in the professional examination in these subjects. In selecting the most suitable candidate for the award, the Senatus Academicus shall have power to take into account the candidate's need of pecuniary assistance. If no candidate is considered to be of sufficient merit, the bursary will not be awarded. Applications must be submitted before 1st April each year to the Dean of the Faculty of Medicine from whom forms of application can be obtained.

1958, A. H. McDonald.

Methven (Jessie) Bursary.—Awarded annually to women who are to engage in the undergraduate or post-graduate study of Midwifery at the Elsie Inglis Memorial Maternity Hospital, Edinburgh. Patrons, the Board of Management of the Edinburgh Southern Hospital Group. Apply for particulars to the Medical Superintendent, 21 Hill Street, Edinburgh 2.

1958, No award.

Milner Fothergill Medal in Therapeutics.—Awarded biennially for the best essay, embodying the results of original research, on a subject in Pharmacology or Therapeutics (preference being given to a subject relating to Dietetics), to a graduate in Medicine who has attended the *Materia Medica* class in the University. Essays to be lodged with the Professor of *Materia Medica* by 31st March. Open in 1959.

1942-58, No award.

Mouat Scholarship in the Practice of Physic.—£58 for one year and a bronze medallion (the cost of the medallion is a charge on the stipend); awarded annually to the graduate in Medicine who has taken the highest place both in the class examination and in the final examinations (oral and written) in the Practice of Physic. The holder must pursue his medical studies either as a resident in an infirmary or hospital, or in this or any other University, and must present a final report to the Professor of the Practice of Physic or to the Senate of the work he has done during his tenure.

1959, J. H. Turner B.Sc., M.B., Ch.B.

Murchison Memorial Scholarship.—£21 for one year; awarded (in alternate years in London and in Edinburgh) on the basis of an examination in Clinical Medicine, to a registered medical student (whether holding a medical qualification or not) who, after passing the professional examinations in Anatomy and Physiology, has studied for not less than two and a half, and not more than five, years at a medical school in London recognised by the Royal College of Physicians, or at the University of Edinburgh, including medical classes recognised

by it. Apply to the Dean by 18th May. The competition in 1959 will be in Edinburgh.

1959, J. H. Turner, B.Sc., M.B., Ch.B.

Murdoch Brown Silver Medal.—Awarded annually on the basis of an examination to the best of the six candidates who obtained the highest marks in the final examination in Clinical Medicine.

1959, A. W. Dellipiani, M.B., Ch.B.

†**Ogilvy (William Mawlum) Gold Medal.**—To be awarded to the student who obtains the highest aggregate marks in class and professional examinations in Veterinary Botany, provided that in the opinion of the Faculty of Medicine and the Board of Veterinary Studies the number of marks gained is sufficient to justify the award.

1958, K. R. C. Ferguson.

Oswald (Ian) Prize for Anatomy.—Two prizes, of the value of £5, 10s., to be awarded annually on the same general conditions as the Cunningham Memorial Medal, to students who have distinguished themselves in the Course of Anatomy. Founded by Lieut.-Colonel and Mrs. F. Oswald in memory of their son, Ian Oswald, student of Medicine in the University of Edinburgh, 1938-41, killed on active service with the Fleet Air Arm, 23rd May 1944, while serving as Sub-Lieutenant in the second World War.

1959, Rosalie M. Turner, C. J. Cutting and R. B. Ewart.

Pattison Prize in Clinical Surgery.—£19; awarded annually for the best report and commentary on not more than six cases treated in the general surgical wards in the Royal Infirmary, or the Eastern, the Northern, or the Western General Hospital, during the writer's membership of the class of Clinical Surgery. Candidates must obtain the permission of the surgeon of the ward to report on any case under his charge; they are reminded that such permission does not give them authority to publish any case. Reports to be lodged with the Dean by 6th June.

1958, W. J. Irvine, B.Sc., M.B., Ch.B.

Poole (Lawrence) Prize in Rehabilitation after Poliomyelitis.—The prize, of annual value of approximately £30, may be awarded to a student or graduate in the Faculty of Medicine or the Faculty of Science (not necessarily of Edinburgh University) under the following conditions:—

- (a) as an award to the inventor of any significant equipment of proven value in the rehabilitating of sufferers from poliomyelitis, or in facilitating their mode of life after rehabilitation is complete, or
- (b) as an award to any one who devised some form of physical or medical treatment which accelerated the rehabilitation of victims of poliomyelitis, or
- (c) as a prize to anyone who has made a valuable contribution to the knowledge of the prevention or cure of poliomyelitis, or
- (d) as a grant for one, two or three years to instigate and carry out any approved investigation in the prevention, and/or cure of poliomyelitis.

Applications or nominations for the prize, which should be lodged with the Dean of the Faculty of Medicine by 30th April, should give full particulars of the grounds upon which the application or nomination is made.

1959, G. W. A. Dick, M.D., D.Sc., M.P.H. and D.M.S. Dane, B.A., M.B., B.Chir.

Post-Graduate Studentships, Research Grants and Fellowships (financed from general University funds).

Studentships.—£300, £320, £340, if extended to a second and third year; open to graduates of a recognised University, of I or II Class Honours or equivalent standing who propose to undertake advanced study or research under supervision in the University of Edinburgh.

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Research Grants.—Available to graduates of any University carrying out research under the direction of the Head of a Department of the University of Edinburgh and to members of the staff of the University.

Conference Grants.—Available to members of staff of the University wishing to attend Professional Conferences abroad.

Fellowships: Junior £500—£550—£600; Senior £750—£800—£850: for original research, normally at the University of Edinburgh, open to graduates of any University.

Conditions of award and application forms for Studentships, Research Grants, and Fellowships may be obtained from the Matriculation Office, or from the Offices of the Deans of the Faculties of Medicine and Science.

Risk (John) Bequest.—The income from this fund amounting to about £1000 per annum is for "the encouragement and advancement of medical and surgical research" and is available to departments in the Faculty of Medicine to meet the expenses of medical or surgical research of members of the staff of the University or of other persons engaged on medical or surgical research in a University Department.

Apply (on a prescribed form) to the Dean by 31st October or 30th April.

Ritchie (Andrew Graham) Bursary Fund.—The income from this fund amounting to about £95 p.a., will be applied in providing a bursary or bursaries to be awarded annually to undergraduates of any year in the Faculty of Medicine of the University. Preference will be given to the sons or daughters of members of the medical profession. The bursary or bursaries (if more than one) will be tenable for one year but, unless otherwise determined, will be renewed yearly during the remainder of the holder's undergraduate course. The bursary (if only one) or the principal bursary (if more than one) will be of the value of not less than £50 nor more than £60 p.a. The bursary or bursaries will be awarded by the Senatus Academicus on the recommendation of the Faculty of Medicine, after interview with the candidates. Subject always to the financial circumstances of the candidates, special regard will be had to character and to the impression made on the Selection Committee rather than to scholastic qualifications. Applications should be submitted to the Dean of the Faculty of Medicine (from whom forms of application may be obtained) not later than 1st October.

1958, J. W. S. Angus, A. Ramsay, Flora M. M. Robertson.

Ross-Inkster Medal.—Awarded annually to the student who, having attended the whole undergraduate course in Public Health and Social Medicine, and having passed the Final Professional Examination in the subject, is considered the most distinguished student in the class.

1958, J. H. Turner, B.Sc.

Roughhead Fund.—The income of this fund, amounting to about £13, is granted for research in cancer.

Royal Victoria Hospital Tuberculosis Trust Gold Medal. Awarded annually to the most distinguished student in the department of Tuberculosis.

1959, G. R. Massarella, M.B., Ch.B.

Scott (James) Scholarship.—£32 for one year (with a possible extension to 2 years); awarded to the graduate in Medicine in the year of the award who has shown the highest proficiency in Midwifery and Gynaecology, as proved by (a) the class examinations in Midwifery and Gynaecology; (b) his records of cases treated in the Simpson Memorial Maternity Pavilion, Royal Infirmary; and (c) the final examinations in Midwifery and Gynaecology for the M.B., Ch.B. degrees.

1959, D. T. Baird, M.B., Ch.B.

Scottish Association for the Medical Education of Women Prize.—£9, 10s.; awarded annually to the most distinguished woman graduate in Medicine of the year.

1959, Lilian E. Murchison, M.B., Ch.B.

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Singapore Gold Medal.¹—Awarded quadrennially for the best M.D. or D.Sc. thesis on a subject in Tropical Medicine submitted in the year of the award or in the three previous years. Open in 1961.

1958, G. W. A. Dick, M.D., D.Sc.

Stirton Bursary.—£27 awarded annually to the fourth-year student who has obtained the highest total of marks in the First, Second, and Third Professional examinations and who is continuing his medical curriculum in the University.

1959, H. C. Drysdale.

Theses Gold Medals.—Awarded to Doctors of Medicine and Masters of Surgery whose theses are deemed worthy of the honour.

1959, H. D. Ritchie, M.A., B.A., Ch.M., and H. B. Torrance, Ch.M.

Thomson Memorial Medal.—Awarded annually for an account (of sufficient merit) of original investigation bearing on the subject of Disease in Children, to a graduate in Medicine of not more than five years' standing (time spent in service with the Forces after graduation not being counted in reckoning the five years' period), or to an undergraduate. Accounts to be lodged with the Dean by 31st May.

1957, No award.

†Tindal (James) Post-graduate Scholarship.—This Scholarship, of the value of approximately £75 (or £100) is tenable for one year and may be awarded annually to the graduate of the year in Veterinary Medicine and Surgery who is considered by the Faculty of Medicine on the report of the Board of Veterinary Studies to be most distinguished and successful in one or all classes in the school of Veterinary Studies. The scholar is required to continue his studies in such branch of Veterinary Science as he may choose, either by attending advanced classes or lectures or by original research work in the Royal (Dick) School of Veterinary Studies, or elsewhere, but preferably in the Royal (Dick) School of Veterinary Studies. The Scholarship may not be awarded if, in any particular year, the Faculty of Medicine and the Board of Veterinary Studies consider that no candidate is sufficiently well qualified for the award.

1952-58, No award.

Traquair (James) Scholarship.—£400 for one year; awarded every other year on the recommendation of the Faculty of Medicine to a graduate of the University of Edinburgh of under five years' standing with an Honours Degree in Biochemistry or Chemistry, for Chemical Research in relation to Medicine under the direction of the Professor of Chemistry in relation to Medicine, the Professor of Chemistry or the Professor of Organic Chemistry.

Applications should be submitted to the Dean by 1st September on the prescribed forms.

1957-58, No award.

Waldie Griffith Prize Scholarship.—£9 p.a. for one year; awarded annually on the recommendation of the Faculty to a woman studying for graduation in Medicine, or a woman graduate in Medicine, who is working at the Edinburgh Hospital and Dispensary for Women and Children, Whitehouse Loan, Edinburgh, failing whom, to any other woman studying for graduation in Medicine, or a woman graduate in Medicine. Apply to the Secretary to the University by 1st October.

1957, No award.

Wellcome Medal and Prize in the History of Medicine.—The Medal and Prize of £25 will be awarded in July 1960 for the best essay on "The Development of the Understanding of Cardiovascular Disorders after the time of Harvey and before that of Sir James Mackenzie". The competition is open to Medical

¹ Formerly Straits Settlements Medal. At present a money prize of £10, 10s. The recipient, however, will be known as a "gold medallist."

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students presently matriculated in the Faculty of Medicine of the University, and to graduates in Medicine and Surgery of the University of Edinburgh of not more than five years' standing (excluding any period during which competitors may have been engaged on National Service) at the time of award. Essays to be lodged with the Dean of the Faculty of Medicine on or before 2nd May 1960.

1959, Margaret J. C. Somerville.

Whiteside Bruce Bursary.—One bursary of £44 for one year; awarded to a student who, beginning the study of Medicine in the winter or summer session of the previous year, has attended the Chemistry, Physics, and Biology classes in the University for not more than a winter and a summer session and obtained the highest number of marks in the class examinations in these subjects.

1959, Judith M. Spratt.

Wightman Prize in Clinical Medicine.—£25; awarded annually for the best report and commentary on not more than six cases treated in the general medical wards in the Royal Infirmary, or the Eastern, the Northern or the Western General Hospital, during the writer's membership of the class of Clinical Medicine. It will be permissible to include one or more of the written accounts of cases dealt with during the three months' course at the University General Practice Teaching Unit. Candidates must obtain the permission of the physician of the ward to report on any case under his charge; they are reminded that such permission does not give them authority to publish any case. Reports to be lodged with the Dean by 6th June.

1959, M. J. MacLean, M.B., Ch.B.

Wilkie (Sir David) Research Fellowship in Surgery and/or Medicine.—The above Fellowship of the value of £800 to £900 (sterling) per annum, with a possible allowance for approved expenses of research, and tenable for two years (with possible extension to three years at the discretion of the Senatus Academicus), will be open for award in October. Intimation will be made of the date on which the award will next be vacant.

The Fellowship is open to graduates of any University. The holder will be required to carry out approved research in Surgery and/or Medicine in the University, and he must attend the honours class in Physiology, unless he is already a graduate in Physiology or in Science. While undertaking the research work he will be expected to maintain contact with clinical work, but the time to be devoted to this will be restricted to two half-days per week. During his tenure the Fellow will not be permitted to study for or to present himself for any examination leading to a higher diploma in Medicine or Surgery.

Applications must be submitted on a prescribed form, a copy of which may be obtained from the Dean of the Faculty of Medicine, or from the under-mentioned persons.

Applications from graduates in the United Kingdom or countries other than Australia, Canada, New Zealand and South Africa, should reach the Dean of the Faculty of Medicine, University New Buildings, Edinburgh, 8, Scotland, by March.

Applications from graduates in Australia, Canada, New Zealand and South Africa should reach one of the undermentioned persons by February.

AUSTRALIA: The Chairman, National Health and Medical Research Council, Department of Health, Canberra, A.C.T., Australia.

CANADA: The Awards Officer, National Research Council, Ottawa, Ontario, Canada.

NEW ZEALAND: The Secretary, Medical Research Council, Department of Health, P.O. Box 5013, Wellington, New Zealand.

SOUTH AFRICA: The Director, The South African Institute for Medical Research, Hospital Street, Johannesburg, South Africa.

1956, R. B. Cross, B.Sc., M.B., B.S.

Fellowships, Scholarships, etc.

†**Wilson (Peter) Scholarship.**—This Scholarship, of the annual value of £375 (approx.) is tenable for one year, (or at the discretion of the Senatus for a longer period).

The holder of the Scholarship is required to carry out research work in connection with any of the following subjects, Medicine, Surgery, Physiology or Hygiene, but not to include Bacteriology except in so far as it may be necessary to elucidate some point in any or all of the above subjects. The Scholar must present a report on his work to the Faculty of Medicine at the end of each year of his tenure of the Scholarship. The University may at its discretion every fourth or fifth year use the whole or a part of the income from the Scholarship funds to provide, in the Royal (Dick) School of Veterinary Studies, a course of lectures to practitioners on the advances made in Veterinary Science.

Applications for the Scholarship must be lodged with the Director of the Veterinary School not later than 1st September.

1957, A. D. Care, M.A., Ph.D.

Wilson (Robert) Memorial Prize.—£7, 10s.; a silver medal with a sum of money; awarded annually at the end of the first year to the student in the class of Chemistry in relation to Medicine who obtains the highest marks in the class examinations.

1959, Judith M. Spratt.

Wood Undergraduate Bursary.—£100; tenable for the remainder of a full curriculum at the Edinburgh Medical School, either intra- or extra-murally, provided that attendance, progress, and conduct are satisfactory, and awarded to students who have shown high proficiency in English and passed a qualifying examination in Latin and Greek, and Mathematics in an examination held at the Royal College of Physicians, Edinburgh, in the October following a vacancy. This bursary is open only on the occurrence of a casual vacancy in the Wood entrance bursary, or as the Royal College of Physicians, Edinburgh, shall decide. Apply to the Secretary of the Royal College of Physicians of Edinburgh, 9 Queen Street, Edinburgh.

1959, A. C. MacQuish.

The following fellowships, scholarships, bursaries, and prizes are tenable by students in the Faculty of Medicine. Full details are given in the programme of the Faculties indicated.

Angus (Edinburgh) Club Scholarships (Arts—Strathmore-Cobb)

Bartle Frere Memorial Fund (Arts)

British Council Travel Grants (Arts)

Brown (Richard) Scholarships (Arts)

Carmichael (Robert) Scholarships (Arts)

Carnegie Research Fellowships, Scholarships, and Grants in Aid (Arts)

Cecil Peace Prize (Arts)

Cowan House Scholarships (Entrance Bursaries)

Dewar Research Fellowship (Science)

Dewar Research Fund (Science)

Dickson (William) Travelling Fund (Arts)

Dominion Students' Hall Trust (Arts)

Fulbright Travel Grants (Arts)

Gilchrist Fund (Arts)

Gray Prizes (Arts)

Grierson Verse Prize (Arts)

Harkness Fellowships (Arts)

Highlands and Islands Education Trust Undergraduate Bursaries (Arts)

Hope Prize Scholarships (Science)

Leverhulme Research Fellowships and Grants in Aid of Research (Arts)

Mackay Smith Scholarships (Science)

McKissack Bursary (Divinity)

Moray (Earl of) Endowment for the Promotion of Original Research (Arts)

Faculty of Medicine

Murchison of Taradale Memorial Trust (Arts)

Ramsay Wright Scholarship (Science)

Ritchie Fund (Science)

Shaw Macfie Lang Fellowship (Arts)

Sloan Prize (Arts)

Spence (Magnus) Memorial Prize (Arts)

Stevenson Exchange Scholarships (Arts)

Wardlaw (D. R.) Memorial Bequest (for the behoof of indigent students) (Arts).

FACULTY OF ARTS PROGRAMME

*Dean:—*PROFESSOR DREVER

TABLE OF COURSES

Terms:—Autumn—Oct. 13 to Dec. 18, 1959
Spring—Jan. 12 to March 18, 1960
Summer—April 19 to June 17, 1960

Non-matriculated students are admitted to the courses marked with an asterisk (*) on the payment of an Entry Fee of £1 and the fees for the individual classes taken—£5, £8 and £10 for classes of one, two and three terms respectively, and £5 for a two- or three-term class which meets on fewer than thirty occasions.

Degree of M.A.

(a) Department of Language and Literature

Courses	Day of Opening	Hour	Professors and Lecturers
ARABIC (<i>Muir Institute</i>)			
*Elementary (3 terms)	Oct. 13	2	} Rev. Dr. Montgomery Watt
*Colloquial Arabic (summer)	Apr. 19	2	
Ordinary (3 terms)	Oct. 13	3	
Honours (3 terms)	Oct. 13		
BIBLICAL STUDIES (<i>Old College</i>)			
*First Ordinary (3 terms)	Oct. 13	4.15	} Mr. D. M. G. Stalker
*O.T. Half-course	Oct. 15	4.15	
*N.T. Half-course	Oct. 13	4.15	
*Second Ordinary	Oct. 13	5.15	
BIBLIOGRAPHY (<i>Old College</i>: spring)			
...			
CELTIC (<i>Minto House</i>)			
*Elementary (3 terms)	Oct. 14		} Prof. Jackson
First Ordinary (3 terms)	Oct. 13	4	
Intermediate Honours and Second Ordinary (3 terms)	Oct. 13		
Honours (3 terms)			
ENGLISH LANGUAGE (<i>40b George Square</i>)			
Ordinary (3 terms)	Oct. 13	9	} Prof. McIntosh
Intermediate Honours (3 terms)	Oct. 13	11	
Honours	Oct. 13	11	
Old Norse (autumn and spring)	Oct. 16	12	
ENGLISH LITERATURE (<i>39 George Square</i>)			
First Ordinary (3 terms)	Oct. 13	12	} Prof. Butt, Dr. Clark, Mr. Prudhoe and Lecturers
*Rhetoric (Fri.: autumn and spring)	Oct. 16	12	
Second Ordinary (3 terms)	Oct. 13	12	
Honours	Oct. 13	9	
English as a Foreign Language (<i>25 Buccleuch Place</i> : 3 terms)	Oct. 13	4	
FRENCH (<i>Minto House</i>)			
First Ordinary (3 terms)	Oct. 13	3	} Prof. Green and Prof. McMillan
*Literature (Tues.)	Oct. 13	3	
*Prose Composition	Oct. 15	3	
Second Ordinary (3 terms)	Oct. 13	3	
Intermediate Honours (3 terms)	Oct. 13	3	
Honours	Oct. 13	4	
GERMAN (<i>Minto House</i>)			
*Special Tutorial Course (3 terms)	Oct. 15	5	} Prof. Mason
Ordinary (3 terms)	Oct. 13	2	
*Prose (Tues.)	Oct. 13	2	
*Literature (Mon.)	Oct. 19	2	
Intermediate Honours and Second Ordinary (3 terms)	Oct. 13	2	
*Prose (Thurs.)	Oct. 15	2	
Honours (3 terms)	Oct. 13	10	
*Prose (Thurs.)	Oct. 15	11	
GREEK (<i>Old College</i>)			
Ordinary (3 terms)	Oct. 13	11	} Prof. Beattie
Intermediate Honours (3 terms)	Oct. 13	12	
Honours (3 terms)	Oct. 15	10	
*Prose	Oct. 15		
Honours half-course (summer)	...		
Elementary Course	Oct. 14	5	

Faculty of Arts

Courses	Day of Opening	Hour	Professors and Lecturers
HEBREW (<i>New College</i>)			
Elementary (3 terms)	Oct. 15	2	} Rev. Prof. Porteous Rev. Prof. Barr
Junior (3 terms)	Oct. 9	10	
Senior (Arts) (3 terms)	Oct. 13	9	
Honours (3 terms)	Oct. 13	9	
Aramaic or Syriac (autumn and spring)	Oct. 14	9	
HISPANIC STUDIES (<i>Minto House</i>)			
*Elementary (3 terms)	Oct. 14	4	} Mr. Walton
First Ordinary (3 terms)	Oct. 13	11	
Second Ordinary (3 terms)	Oct. 19	12	
Intermediate Honours (3 terms)	Oct. 13	12	
Honours (3 terms)	Oct.	10	
ICELANDIC (<i>Minto House</i>)			
*Elementary			} Mr. Palsson
Ordinary			
ITALIAN (<i>Minto House</i>)			
*Elementary (3 terms)	Oct. 15	4	} Dr. Rossi
Ordinary (3 terms)	Oct. 13	2	
*Literature (3 terms)	Oct. 16	2	
Intermediate Honours (3 terms)	Oct. 14	12	
Italian Background of English Literature (Ordinary half-course)	Nov.	...	
Junior Honours (3 terms)	Oct.	...	
Honours (3 terms)	Oct.	...	
LATIN (<i>Old College</i>)			
First Ordinary (3 terms)	Oct. 13	10	} Prof. I. M. Campbell
Second Ordinary (3 terms)	Oct. 13	10	
Intermediate Honours (3 terms)	Oct. 13	11	
Honours (3 terms)	Oct. 15	11	
*Prose	Oct. 15	...	
Honours Half-course (summer).	
MUSIC (<i>Reid School</i>)			
*First Ordinary (3 terms)	Oct. 13	2	} Prof. Newman
Second Ordinary (3 terms)	Oct. 13	3	
PERSIAN (<i>Muir Institute</i>)			
*Elementary (3 terms)	Oct. 13	11	} Mr. Elwell-Sutton
Ordinary (3 terms)	Oct. 13	10	
Honours	Oct. 13	9	
RUSSIAN (<i>Minto House</i>)			
Scientific Russian (3 terms)	} Mr. Ward
*Elementary (3 terms)	Oct. 13	...	
First Ordinary	Oct. 14	...	
Intermediate Honours and Second Ordinary	Oct. 14	...	
Junior Honours	...	...
Final Honours	
SANSKRIT (<i>Muir Institute</i>)			
Elementary	Oct. 13	2	} Dr. Warder
Ordinary (3 terms)	Oct. 13	3	
Honours (autumn and spring)	Oct. 13	...	
TURKISH (<i>Muir Institute</i>)			
*Elementary (3 terms)	Oct. 13	...	} Mr. Walsh
Ordinary (3 terms)	Oct. 13	...	
Honours (3 terms)	Oct. 13	...	
URDU (<i>Muir Institute</i>)			
Elementary Urdu (3 terms)	Oct. 13	...	} Rev. H. Spencer
Elementary Hindi (3 terms)	Oct. 13	...	
Ordinary (3 terms)	Oct. 13	...	
Intermediate Honours	Oct. 13	...	

Table of Courses

(b) Department of Mental Philosophy

Courses	Day of Opening	Hour	Professors and Lecturers
ANCIENT PHILOSOPHY (<i>Old College</i>)			
Introductory course (summer)	Apr. 19	9	} Mr. Coxon
Honours courses:			
I. (Spring)	Jan. 12	12	
II. (Autumn and Spring)	Oct. 14	9	
III. (Autumn)	Oct. 14	...	
IV. (Spring) . . . . .	...	...
ECONOMIC GEOGRAPHY (<i>High School Yards</i>)			
First Ordinary (3 terms)	Oct. 14	12	Dr. Robertson
LOGIC AND METAPHYSICS (<i>Old College</i>)			
Ordinary (3 terms)	Oct. 13	10	} Prof. * * *
Second Ordinary and Intermediate Honours (3 terms)	Oct. 13	12	
Honours (autumn and spring)	Oct. 14	11	
*The Nature of Knowledge . . . . .	...	...
MORAL PHILOSOPHY (<i>Old College</i>)			
Ordinary (3 terms)	Oct. 13	10	} Prof. Barnes
Social Philosophy (3 terms)	Oct. 13	10	
Honours (autumn and spring)	Oct. 14	12	
Honours Half-course (summer)	Apr. 22	11	
Æsthetics (autumn and spring)	Oct. 13	2	
POLITICAL ECONOMY (<i>41-42 George Square</i>)			
Ordinary (3 terms)	Oct. 13	9	} Prof. Peacock
Intermediate Honours:			
Autumn	Oct. 14	10	
Spring	Jan. 12	10	
Summer	Apr. 20	10	
Honours (autumn and spring)	Oct. 13	11	
POLITICAL SCIENCE	Oct. 13	12	Mr. Nobbs
PSYCHOLOGY (<i>Old College</i>)			
First Ordinary (3 terms)	Oct. 14	11	} Prof. Drever
Second Ordinary (3 terms)	Oct. 13	11	
Intermediate Honours (3 terms)	Oct. 13	9	
Honours (autumn and spring)	Oct. 13	9	
SOCIAL ANTHROPOLOGY (<i>3 Buccleuch Place</i>)			
Ordinary (3 terms)	Oct. 13	4	} Dr. Little
Intermediate Honours (3 terms)	Oct.	...	
Applied Anthropology (summer)	Apr.	...	
Junior Honours (3 terms)	Oct.	...	
Honours	Oct.	...	
STATISTICS (<i>Math. Institute</i>)			
Elements of Statistics (summer)	Apr. 19	4	} Dr. Lawley
Advanced Statistics (autumn and spring)	Oct. 15	3	

(c) Department of Science

ASTRONOMY (<i>Math. Institute and Royal Observatory</i>)			
Ordinary (3 terms)	Oct. 14	5	Prof. Brück
BOTANY (<i>Royal Botanic Garden</i>)			
First Ordinary (3 terms):			} Prof. Brown
Lectures (A Class)	Oct. 13	2	
Practical (A Class) . . . . .	...	...
Lectures (B Class)	Oct. 14	2	
Practical (B Class) . . . . .	...	...
Second Ordinary (3 terms)	Oct. 14	9	
CHEMISTRY (<i>The King's Buildings</i>)			
First Ordinary (3 terms)	Oct. 14	9.30	} Prof. Hirst and Prof. Cottrell
Second Ordinary (3 terms)	Oct. 14	12.30	

Faculty of Arts

Courses	Day of Opening	Hour	Professors and Lecturers
GEOGRAPHY (<i>High School Yards</i>)			
First Ordinary (3 terms)	Oct. 14	9	} Prof. Watson
Second Ordinary and Intermediate Honours (3 terms):			
(A) Regional Geography	Oct. 14	12	
(B) Cartography	Oct. 13	12	
Junior Honours (3 terms)	Oct. 13	11	
Senior Honours (autumn and spring)	...	...
Geography of Spain (spring)	
GEOLOGY (<i>The King's Buildings</i>)			
First Ordinary (3 terms)	Oct. 14	9.30	} Prof. Stewart
Second Ordinary (3 terms)	Oct. 13	9.30	
MATHEMATICAL PHYSICS (<i>1 Roxburgh Street</i>)			
Ordinary (3 terms)	Oct. 13	10	} Prof. Kemmer
Intermediate Honours (3 terms)	Oct. 13	12	
Honours (3 terms)	Oct. 13	11	
Advanced Honours (2 terms)	Oct. 14	12	
MATHEMATICS (<i>Math. Institute</i>)			
First Ordinary (3 terms)	Oct. 13	9	} Prof. Aitken
Second Ordinary (3 terms)	Oct. 13	12	
*First Actuarial Course (3 terms)	Oct. 13	12	
Intermediate Honours (3 terms)	Oct. 13	11	
*Second Actuarial Course (3 terms) . . . . .	...	...
Honours:			
*Foundations of Analysis (autumn)	Oct. 13	10	
*General Analysis (spring)	Jan. 12	10	
*Algebra and Geometry (autumn and spring)	Oct. 13	10	
*Mathematical Laboratory Course (spring)	Jan. ...	...
*Technical Mathematics:			
First Course	Oct. 14	10	
Second Course	Oct. 14	9	
METEOROLOGY (<i>Drummond Street</i>)			
Ordinary (3 terms)	Oct. 14	11	Mr. Paton
NATURAL PHILOSOPHY (<i>Drummond Street</i>)			
First Ordinary (3 terms)	Oct. 14	11	} Prof. Feather
Second Ordinary (3 terms)	Oct. 13	11	
Intermediate Honours (3 terms)	Oct. 13	9	
Honours	Oct. 14	9	
Laboratory Course	Oct.	9	
PHONETICS (<i>Minto House</i>)			
*Ordinary (3 terms)	Oct. 13	2	Mr Abercrombie
ZOOLOGY (<i>The King's Buildings</i>)			
First Ordinary (3 terms)	Oct. 14	2	} Prof. Swann
Second Ordinary (3 terms)	Oct. 14	2	

(d) Department of History and Law

ANCIENT HISTORY (<i>Old College</i>)			
Ordinary (3 terms)	Oct. 13	12	} Dr. Cadoux
Honours:			
Greek (autumn)	Oct. 13	2	
Roman (spring)	Jan. 12	2	
CIVIL (ROMAN) LAW (<i>Old College</i>)			
Autumn and Spring	Oct. 13	2	} Prof. Smith
Summer	Apr. 12	2	
CLASSICAL ARCHÆOLOGY (<i>19-20 George Square</i>)			
Introductory Course (summer)	Apr. 20	9	} Mr. Gough
Honours Course (spring and summer)	Jan. 14	12	

Table of Courses

Courses	Day of Opening	Hour	Professors and Lecturers
COMPARATIVE CONSTITUTIONS (<i>Old College</i> : 3 terms)	Oct. 13	3	Prof. Mitchell
CONSTITUTIONAL LAW (<i>Old College</i>)			
Ordinary (3 terms)	Oct. 13	5	
Honours	
ECCLESIASTICAL HISTORY (<i>New College</i>)			
Ordinary Course:			Prof. Burleigh
I (autumn and spring)	Oct. 13	9	
II (autumn and spring)	Oct. 13	10	
*Honours Course:			
I (autumn and spring)	Oct. 13	...	
II (autumn and spring)	Oct. 13	...	
ECONOMIC HISTORY (<i>41-42 George Square</i>)			
Ordinary (3 terms)	Oct. 13	2	Prof. Youngson
Half-course (half of spring and summer)	Feb. 22	2	
Intermediate Honours (3 terms)	Oct. 13	3	
Honours (autumn and spring)	Oct. 13	...	
FINE ART (<i>19-20 George Square</i>)			
*Ordinary (3 terms)	Oct. 13	5	Prof. Talbot Rice
Intermediate Honours (autumn and spring)	Oct. 13	11	
Honours (autumn and spring)	Oct. 13	3	
HISTORY (<i>Old College</i>)			
British History:			Prof. Hay and Prof. Horn
Ordinary (3 terms)	Oct. 13	11	
Honours (3 terms)	Oct. 13	11	
European History:			
Ordinary (3 terms)	Oct. 13	9	
Honours (autumn and spring): I	Oct. 20	12	
II	Oct. 20	12	
III	Oct. 20	10	
IV	Oct. 20	10	
German History (autumn and spring)	Oct. 14	10	
History, Its Nature and Methods (autumn)	Oct. 15	10	
Palæography and Diplomatic:			
Elementary	...	...
Advanced	...	...
Spanish History (autumn)	Oct.	...	
Special Subjects (autumn and spring)	Oct.	...	
*IMPERIAL AND AMERICAN HISTORY (<i>Old College</i> : 3 terms)	Oct. 15	2	Mr Shepperson
INTERNATIONAL RELATIONS (<i>Old College</i> : spring)	Jan. 13	5	Prof. Wiskemann
ISLAMIC HISTORY (<i>Muir Institute</i> : 3 terms)	Oct. 13	4	Rev. Dr. Montgomery Watt
POLITICAL SCIENCE (<i>Old College</i> : 3 terms)	Oct. 13	12	Mr. Nobbs
PREHISTORIC ARCHÆOLOGY (<i>19-20 George Square</i>)			
*Ordinary (autumn and spring)	Oct. 13	5	Prof. Piggott
*Honours (autumn and spring)	Oct. 13	2	
PUBLIC LAW (<i>Old College</i>)			
Elements of Jurisprudence (autumn)	Oct. 13	10	Prof. Campbell
Public International Law (spring)	Jan. 12	10	
SCOTTISH HISTORY (<i>Old College</i>)			
First Ordinary (3 terms)	Oct. 13	11	Prof. Dickinson
Second Ordinary (3 terms)	Oct. 13	3	
Honours (autumn and spring):			
Feudal Scotland	Oct. 13	4	
Church and State, 1567-1638	Oct. 13	4	
*Palæography (autumn and spring)	Oct. 13	4	

Faculty of Arts

Degree of B.Arch.

Courses	Day of Opening	Hour	Professors and Lecturers
FINE ART (19-20 George Square)	Oct. 13	5	Prof. Talbot Rice
SEMINAR (16 George Square)	Oct. 19	2	Prof. Matthew

Degree of B.Ed. and Diploma in Education

EDUCATION (48 Pleasance)			
Theory and History of Education (3 terms)	Oct. 13	3.15	} Prof. Pilley
Advanced Education (3 terms)	Oct. 13	11	

PSYCHOLOGY (Old College)			
Psychology (3 terms)	Oct. 13	4.15	} Prof. Dr
Advanced Psychology (3 terms)	Oct. 13	9	

Experimental Education (autumn and spring)	Oct. 16	11	Dr. Renshaw
Advanced Experimental Education (autumn)	Oct. 14	11	Mr. Pilliner
Administration of Schools (summer)	Apr.	...	Mr. Mowa
Social Relations of Education (3 terms)	Oct. 16	12	Miss Brown

Degree of B.Com.

ACCOUNTING AND BUSINESS METHOD (Old College)			
*Elementary Course (autumn)	Oct. 14	10	} Prof. Anderson
*Accounting:			
I (3 terms)	Oct. 13	9	
II (3 terms)	Oct. 13	9	
*BANKING (Old College: autumn and spring)	Oct. 13	5	Mr. Lockie
INDUSTRIAL LAW (Old College: summer)	Apr. 19	4	Mr. Wylie
MERCANTILE LAW (Old College)			
Half-course:			
I Spring	Jan. 12	4	} Prof. Montgomery
II Summer	Apr. 12	4	

ORGANISATION OF INDUSTRY AND COMMERCE (George Square)

First Ordinary:			
Part I (autumn and half of spring)	Oct. 13	5	} Prof. Hunt
Part II (half of spring and summer)	Feb. 10	5	
Second Ordinary (3 terms)	Oct. 14	10	

Diploma and Certificates in the Department of Social Study

ADMINISTRATIVE LAW (Old College: autumn and half of spring)	Oct. 13	4	Mr. McLarty
ELEMENTARY ANATOMY AND PHYSIOLOGY (Anatomy Department, autumn and half of spring)	Oct. 13	3	Dr. Matthews
SOCIAL BIOLOGY (autumn and spring)	Oct. 14	12	Dr. Gordon
SOCIAL SERVICES (59 George Square: 3 terms)	Oct. 16	3	Miss Brown

Table of Courses

Courses	Day of Opening	Hour	Professors and Lecturers
SOCIAL THEORY (<i>59 George Square</i>)			
Diploma (spring and summer)	Jan. 13	9	} Mr. Richmond
Certificate (3 terms)	Oct. 14	9	
SOCIAL CASE WORK AND ADMINISTRATION (<i>59 George Square</i> ; 3 terms)			
Social Aspects of Mental Disorder . . .	Oct. 14	10	} Mrs. Sinclair and Miss Browne
Social Development of the Child . . .	Oct. 14	11	
PSYCHOLOGICAL MEDICINE (<i>Jordanburn Hos- pital</i> ; autumn and spring)	Oct. 16	4.45	Prof. Kennedy
MEDICAL SOCIAL WORK	Oct.	...	Miss Laughton
PERSONAL RELATIONSHIPS	Oct.	...	Miss Browne
INTRODUCTION TO MEDICINE	Oct.	...	} Dr. Cameron
SOCIAL FUNCTION AND ORGANISATION OF MEDICINE	Jan.	...	

Faculty of Arts

TIMETABLE ¹

Ordinary Courses

9-10	10-11	11-12	12-1
<p>Ancient Phil.: Intro. (summer). Accounting and Business Method:— Course I. Course II. Botany I. (Sat. 9-12). Botany II. (9-12). Chemistry I. (9.30). Classical Archæol.:— Introductory (sum.). Ecclesiastical History I. (aut. and spring). English Language. European History. Geography I. Geology I. and II. (9.30). Hebrew: Senior. Mathematics:— First Ordinary. Technical I. (Mon., Thurs., autumn and spring). Technical II. (Wed., Fri., aut. and spr.; Mon., Thurs., Fri., summer). Political Economy.</p>	<p>Accounting and Business Method, Elem. (autumn). Ecclesiastical Hist. II. (aut. and spr.). Hebrew: Junior. Latin I. and II. Logic and Metaphysics I. Mathematics:— Technical I. (Mon., Wed., Fri., aut. and spring; Mon., Wed., Thurs., summer). Technical II. (Thurs., Fri., aut. and spr.). Mathematical Physics. Moral Philosophy. Organ. of Industry and Commerce II. Persian. Public Law:— Jurisprudence (aut.). Public Inter. Law (spring). Social Philosophy.</p>	<p>British History. Greek. Logic and Metaphysics II. (summer). Meteorology. Nat. Phil. (I. and II.). Phonetics. Psychology I. and II. Scottish History I. Spanish I.</p>	<p>Ancient History. Chemistry II. (12.30). Economic Geography I. English I. and II. Geography II. Logic and Metaphysics II. (aut. and spring). Mathematics:— Actuarial I. Second Ordinary. Social Biology (aut. and spring). Spanish II.</p>

Honours Courses

<p>Ancient Phil.: Half-Course II. (autumn and spring). Nat. Phil.: Intermediate. Natural Philosophy. Persian. Psychology: Inter. Psychology.</p>	<p>British History II. (summer). European History III. and IV. (aut. and spr.). German. Greek. History, Its Nature and Methods (autumn). Mathematics:— Foundations of Analysis (autumn). General Analysis. Algebra and Geometry. Political Economy: Intermediate.</p>	<p>British History I. and II. (aut. and spr.). Education: Advanced. English Language: Intermediate. Experimental Education: Advanced (aut. and spr.). Fine Art: Inter. (aut. and spring). German. Latin: Inter. and Hons. Logic and Metaphysics Hons. (aut. and spr.). Mathematics: Inter. Mathematical Physics. Moral Philosophy:— Hons. Half-Course (summer). Political Economy (aut. and spring).</p>	<p>Ancient Phil.: Half-Course I. (spring). European History I. and II. (autumn and spring). Geography: Intermediate. Greek: Intermediate. Italian: Intermediate. Logic and Metaphysics: Intermediate. Mathematical Physics: Intermediate. Mathematical Physics (aut. and spr.). Moral Philosophy:— Hons. (aut. and spr.). Natural Philosophy. Old Norse (aut. and spr.). Political Science. Spanish: Intermediate.</p>
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¹ Where there is no other indication, the classes meet during the three terms. The hours of meeting of

TIMETABLE

Ordinary Courses

2-3	3-4	4-5	5-6
<p>Botany I. (A) (Tues., Thurs., 2-5). I (B) (Mon., Wed., Fri., 2-5). Civil (Roman) Law. Economic History I. German I. and II. Imperial and American History. Italian. Music I. Zoology I. (Mon., Wed., Fri., 2-5). Zoology II. (Mon., Wed., Fri., 2-5).</p>	<p>Arabic. Astronomy. Comparative Constitutions. Economic History II. French I. and II. Music II. Sanskrit Scottish History II. Social Economics. Theory and History of Education (3.15).</p>	<p>Administrative Law (autumn and half of spring). Biblical Studies I. (4.15). Celtic I. Industrial Law (sum.). Islamic History. Mercantile Law (spring and summer). Nat. Phil. II. (Fri.). Psychology I. (Educ.) (4.15). Social Anthropology. Statistics, Elem. of (summer).</p>	<p>Astronomy: Practical (5-7). Banking (autumn and spring). Biblical Studies II. (5.15). Constitutional Law. Fine Art (aut. and spr.). Organ. of Industry and Commerce I.:— Part I. (autumn and half of spring). Part II. (half of spr. and summer). Prehistoric Archæology (autumn and spring).</p>

Honours Courses

<p>Aesthetics (aut. and spr.). Ancient History:— (aut. and spr.). German: Intermediate.</p>	<p>Economic History (aut. and spring). Fine Art. French: Intermediate.</p>	<p>Italian.</p>	
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classes not given in this table will be arranged as far as possible to suit the convenience of members.

INTRODUCTION

Admission to the Faculty of Arts

Prospective entrants to the Faculty of Arts should consult the Programme of Admission to the University (pp. 3-10) from which the following information has been abstracted.

ATTESTATION OF FITNESS.—Every person wishing to begin a curriculum leading to the degree of M.A., B.Com. or B.Arch., to the Diploma in Actuarial Mathematics, or to the Certificate in Social Study, must obtain an Attestation of Fitness.

FURTHER ENTRANCE QUALIFICATIONS.—The Attestation of Fitness is a necessary prerequisite, but may not be sufficient to secure admission. Also, the Attestation of Fitness does not necessarily admit a student to every class he may require: there are special entrance qualifications for particular classes.

APPLICATIONS FOR ADMISSION.—Prospective entrants must apply for admission to the Faculty by 31st May on forms to be obtained from the Matriculation Office, Old College. This does not apply to those wishing to study for the Social Study Diploma and Certificate, and the Certificate in Psychiatric Social Work who must apply as early as possible in the preceding academic year to the Director of Studies, Department of Social Study, 59 George Square, Edinburgh 8.

Procedure after Acceptance for Admission

FIRST-YEAR GRADUATION STUDENTS.—Every first-year graduation student must consult his Director of Studies on one of the following days between 9.30 and 12.30 : 7th, 8th, 9th, and 10th October. He must have with him (a) his Attestation of Fitness, (b) the letter showing that he has been accepted for admission to the Faculty, and (c) a Schedule of Information for the Director of Studies (obtainable from the Matriculation Office, but normally sent with the letter of acceptance for admission) which should be filled up as far as possible. He must obtain (a) his Director's approval of the proposed curriculum, and (b) a pass to be presented at the Matriculation Office for the classes to be taken. During the session he may consult his Director at any time and must see him before applying for special privileges.

GRADUATION STUDENTS OF THE SECOND AND LATER YEARS. Graduation students of the second and later years must fill up a Schedule of Information each year and must consult their Directors of Studies, and obtain their approval of the classes to be taken during the year, on one of the following days between 2.30 and 4.30 : 7th, 8th and 9th October. Students resident in or near Edinburgh are particularly requested to consult their Directors on one of the earlier dates.

A student who desires to change his type of curriculum and hence his Director of Studies must consult his original Director who will transmit his papers to the new Director.

STUDENTS FOR THE SOCIAL STUDY DIPLOMA AND CERTIFICATE, AND THE CERTIFICATES IN PSYCHIATRIC SOCIAL WORK AND MEDICAL SOCIAL WORK should present themselves for interview with the Director of Studies at the Social Study retiring-room on 8th, 9th, or 10th October, between 10 and 12.30 or at such times as may be arranged, except students for the Certificate in Psychiatric Social Work who should meet for information about their course of study on 13th October at 10.

NON-GRADUATION STUDENTS.—Non-graduation students in the Faculty of Arts must consult the Faculty Adviser to Non-Graduation Students and obtain his approval of the courses they wish to follow. The Adviser, Mr John Prudhoe, will be available for interview in Minto House, Chambers Street, on 7th, 8th, and 9th October, between 2.30 and 4.30. Non-graduation students who obtain certificates of due performance in classes prescribed by the Adviser will be admitted to the corresponding degree examinations, but not for the purpose of qualifying for a degree of this University. Non-graduation students wishing to present themselves for examinations must make entry at the Matriculation Office on the appropriate date.

Directors of Studies

All communications requiring an answer should be accompanied
by a stamped addressed envelope

The Directors of Studies for the M.A., B.Arch., and B.Com. degrees are :—

Mr. A. H. COXON, Ancient Philosophy Department, The Old College
Mr. ERROL BEDFORD, Moral Philosophy Department, The Old College
Dr. N. A. FURNESS, German Department, Minto House, Chambers Street
Mr. I. I. HIRD, Commerce Department, 29 George Square
Mr. J. KYLES, Natural Philosophy Department, Drummond Street
Miss W. A. MAYNARD, English Department, 39 George Square
Mr. A. NISBET, Mathematical Physics Department, 1 Roxburgh Street
Mr. D. NOBBS, Department of History, The Old College
Mr. INNES SMITH, Political Economy Department, 41-42 George Square
Mr. A. J. STEELE, Minto House, Chambers Street

Ordinary Degree—

	<i>Surname Initials</i>	<i>Director</i>
M.A., Type A	A—L	Mr. Coxon
M.A., Type A	M—Z	Mr. Nobbs
M.A., Type B	A—Z	Mr. Steele
M.A., Type C	A—Z	Mr. Kyles
M.A., Type D	A—L	Mr. Bedford
M.A., Type D	M—Z	Mr. Innes Smith
B.Com.	A—Z	Mr. Hird

Honours Degree—

(a) B. Arch.	Mr. Bedford
(b) M.A. :	
Classics and English	Mr. Coxon
Economic Science	} Mr. Innes Smith
Psychology	
Social Anthropology	} Mr. Nobbs
Archaeology	
History	
Sanskrit	
Semitic Languages	
Scottish Historical Studies	} Mr. Kyles
Geography	
Fine Art	} Mr. Bedford
Mental Philosophy	
Mathematics and Natural Philosophy	Mr. Nisbet
Modern Languages	} Mr. Steele
Celtic Studies	
French Language and Literature	

Combined Degrees —

M.A., B.Com.	Mr. Hird
M.A., B.Sc., and M.A., M.B. Ch.B.	Mr. Nisbet

Students who are undecided which type of Ordinary degree or which Honours Group they are to take should in the first instance consult the Directors of Studies as follows :—

Surname Initials

A—D	Mr. Coxon
E—I	Mr. Steele
J—M	Mr. Innes Smith
N—R	Mr. Nisbet
S—Z	Mr. Kyles

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The Director of Studies for Social Study Diploma and Certificate and the Certificates in Psychiatric Social Work and Medical Social Work is Miss Marjorie Brown, Department of Social Study, 59 George Square.

Unsatisfactory Progress

Attention of students is drawn to the fact that, if they fail to make satisfactory progress in any year, they may be required by the Senatus to discontinue attendance on classes.

ADVICE ON THE CHOICE OF CURRICULA

(a) Students who hope to become Teachers under the Scottish Education Department ¹

The *Regulations for the Preliminary Education, Training, and Certification of Teachers for various Grades of Schools (Scotland)*, 1931, and the *Training of Teachers (Scotland) Regulations*, 1949 and 1953, may be purchased from H.M. Stationery Office, 13A Castle Street, Edinburgh.

Ordinary Degree

The Teacher's General Certificate is a qualification to teach primary school subjects in state-aided schools, as laid down in Chapters III and IV of the *Regulations*. In order to obtain an Article 39 endorsement on their Certificate conferring a qualification to teach such academic subjects as may be specified to classes in secondary divisions of schools conducted under the Day Schools Code, where the services of a teacher qualified under Chapter V of the *Regulations* cannot reasonably be required, or to classes in schools conducted under the regulations for Secondary Schools, prospective teachers must have included in their University curriculum certain combinations of classes. Those students who began their University studies before October 1949 may apply for Article 39 training under either the old ² or the new regulations.

REGULATIONS

The following is an outline of the revised academic requirements :—

Save in exceptional circumstances, all the courses referred to below must be full courses.

I. All Languages, including English.—Double course in the subject.

In the case of modern foreign languages, three months' residence abroad will be required. This residence abroad (to be spent in a country in which the language is spoken) may be completed in periods of not less than four weeks each, and a satisfactory oral examination must be passed.

II. History.—Two approved courses in History, one of which must be British or European History. The courses so far approved are British History, European History, Scottish History, World History, American and Imperial History (or American History or Imperial History), Constitutional History, Economic History. One of the History courses must include the History of modern times, *i.e.* it must include some study of the History of the nineteenth century.

III. Geography. Two courses ³ in Geography.

IV. History and Geography.—Two courses ³ in each of History and Geography ; or two courses in History ⁴ with one course in Geography, ⁵ and a

¹ Admission to courses of training is dependent upon students obtaining a certificate of physical fitness from a medical officer approved of by the Scottish Education Department.

² See Edinburgh University Calendar, 1953-54, pp. 160 ff.

³ Not necessarily a double course.

⁴ From the branches named in II.

⁵ Where a single course of Geography constitutes a requirement the course must be in General Geography, *e.g.* Economic Geography is acceptable as one of two courses but not as a single course.

course in one of the following subjects : Economics, Political Economy, Political Philosophy ; or two courses¹ in Geography with one course in History² and a course in one of the following subjects : Economics, Political Economy, Political Philosophy.

V. English with Subsidiary History and Geography.—Double course in English with a single course in History³ and a single course in Geography.¹

VI. History with Subsidiary English and Geography.—Two courses² in History³ with a single course in English and a single course in Geography.¹

VII. Geography with Subsidiary English and History. Two courses² in Geography with a single course in English and a single course in History.³

VIII. Mathematics.—Two courses² in Mathematics⁴ ; or one course in Mathematics⁴ and one course in Natural Philosophy or Applied Mathematics.

IX. Science.—1. Double course in one of Physics, Chemistry, Botany, Zoology ; and 2. Single courses in other two of the above subjects ; a single course in Biology or Natural History may be substituted for a single course in either Botany or Zoology.

X. Mathematics with Subsidiary Science.—1. Two courses² in Mathematics⁴ ; and 2. Single course in Physics or Chemistry, and a single course in one of Biology, Natural History, Botany, Zoology.

XI. Science with Subsidiary Mathematics.—1. A double course in Physics or Chemistry and a course in one of Biology, Natural History, Botany, Zoology ; or a double course in one of Biology, Natural History, Botany, Zoology, and a course in Physics or Chemistry ; and 2. One course in Mathematics.⁴

XII. Specific Branches of Science.—1. *For Graduates in Science* :—Degree passes will be accepted in respect of all subjects included in the Degree Diploma. 2. *For Graduates in Arts or Holders of Diplomas of Central Institutions* :—Degree passes will be accepted as follows for all Science subjects (Geography and Mathematics excepted) included in the Diploma :—(a) Double course in Science subject ; (b) Single course in Science subject, plus Physics with Laboratory Practice ; (c) Single course in Science subject, plus Chemistry with Laboratory Practice.

Students must also undergo a course of instruction in the special methods of teaching the particular subject and reach a satisfactory degree of proficiency therein.

Honours Degree

The Teacher's Special Certificate is a qualification to teach special subjects in secondary schools, as laid down in Chapter V of the *Regulations*. This qualification is normally required of principal teachers, and may be required of all teachers, in secondary schools, of Classics (Latin and Greek), Economics, English, Geography, History, Mathematics, Modern Languages or Science. The qualifications for admission to training are as follows :—

For Classics, Economics, English,⁵ Geography, History, Mathematics, and Modern Languages,⁶ a first-, second- or third-class Honours degree in the subjects to be taught ; or an Ordinary degree with first-, second- or third-class Honours after graduation.⁷

¹ Where a single course of Geography constitutes a requirement the course must be in General Geography, e.g. Economic Geography is acceptable as one of two courses but not as a single course.

² Not necessarily a double course.

³ From the branches named in II.

⁴ Where two courses are prescribed one must be in or contain a large element of Pure Mathematics ; where only one course is prescribed it must be in or contain a large element of Pure Mathematics. For the purposes of these regulations Mathematics Second Ordinary (Arts) or Mathematics I (Science) will be accepted as equivalent to two courses in Mathematics.

⁵ Graduates with first-class Honours in Mental Philosophy may be admitted to train as English teachers, if they have attended two English classes (of which one was an Honours class) and have been certified by the Professor or Lecturer to have reached the standard of first- or second-class Honours in that part of the Honours English course which they have overtaken.

⁶ From teachers of Modern Languages the Department requires a year's study abroad under approved conditions. It may also impose such other test (oral or otherwise) as it thinks fit.

⁷ Where no Honours degree examination is available the Department may accept other evidence of attainments equivalent to first- or second-class Honours.

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For Science subjects, a B.Sc. degree with first-, second- or third-class Honours (in any of the following subjects :—Agriculture, Botany, Chemistry (Pure or Applied), Engineering, Geography, Geology, Mathematics (Applied), Physics, Zoology) ; *or* for the teaching of Physics a first-, second- or third-class Honours degree (M.A.) in Mathematics and Natural Philosophy *or* another approved degree.

In addition to a qualification under Chapter V in respect of the subject in which they hold first-, second- or third-class Honours graduates may receive an Article 39 qualification in respect of their subsidiary subject(s) (*see* preceding outline of academic requirements). Article 39 training is desirable in most instances but is particularly advisable in the case of Honours graduates in Economics, Geography, History and Languages.

(b) Students who propose to enter the Ministry of the Church of Scotland

Such students should refer to the section on "Procedure to the Ministry" in the *Church of Scotland Year-Book* (5s., postage extra), or in the *College Calendar* of the Church of Scotland (1s. postage extra), both of which may be obtained from the Church Offices, 121 George Street, Edinburgh. They are recommended to include in their Arts curriculum as many as possible of the following subjects :—English, Greek, History, Latin, Moral Philosophy, and Logic and Metaphysics. If they do not include Greek in their M.A. degree course (and have had no training in classical Greek grammar and syntax) and if they do not include Hebrew in their M.A. degree course, they should attend concurrently with it the Elementary New Testament Greek and the Elementary Hebrew classes. All students who propose to graduate in Divinity must pass an entrance examination in New Testament Greek and in Hebrew. For the Divinity entrance bursary examination Hebrew and Greek are essential. New Testament Greek is one of the subjects required of candidates for Divinity scholarships and fellowships. Prospective Divinity students should consult the Dean of the Faculty of Divinity at an early stage in their Arts curriculum.

(c) Arts Students who may proceed later to the LL.B. Degree

There are three courses qualifying for the M.A. degree which also qualify for a degree in Law :—Civil (or Roman) Law, Constitutional Law, and Public Law (Elements of Jurisprudence and Public International Law), the last named counting as a single full course for the M.A. degree and being divided into the separate subjects. Elements of Jurisprudence and Public International Law, for the LL.B. degree. These courses can be common to the combined degrees ; and a pass in any of them (in Public Law, in both Elements of Jurisprudence and Public International Law) must be on the Law standard if it is to count for both degrees. It is advisable to take British History before Constitutional Law in order both to include the latter and to fulfil the requirement for the M.A. degree of at least one double course in a single subject. Civil Law should also be included if the candidate is taking the LL.B. degree for professional purposes and wishes to obtain the combined degrees in five years.

(d) Students studying for Civil Service and other Special Examinations

Honours students and students studying for special examinations should, as early in their course as possible, consult the Professors of the special subjects which they are to study. Students who desire information or advice with regard to the Home, Foreign or Colonial Services, or other posts in the public services, should apply to the Appointments Secretary (*see* Programme Admission to the University) or to their Directors of Studies.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations". Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.*

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degrees of M.A., Honours and Ordinary, B.Ed., and B.Com., and the combined degrees of M.A., B.Com., M.A., B.L., and M.A., LL.B. is £35. Students combining the ordinary degree of M.A. with the B.Sc. degree pay an annual fee of £35 for the first, second and third years and an annual fee of £55 in each subsequent year provided the M.A. degree is taken first; for an Honours M.A., combined with the B.Sc. degree an annual fee of £35 is paid in the fourth year of study and £55 in each subsequent year. For the combined degrees of M.A., M.B., Ch.B., six annual fees of £60 and two annual fees of £35, for the years devoted solely to the study of Arts subjects, are exigible. The annual fee for the B.Arch. degree is £55. A student reading for Honours in Modern Languages is allowed a remission of £7 for each term spent abroad.

The fee for the Diploma in Education, English Studies, Geography, Islamic Studies, Linguistics, Palæography and Manuscript Studies, Phonetics and Social Anthropology is £35. The fee for the Diplomas in Social Study and Actuarial Mathematics is £35 per annum. The fee for the Diploma in Applied Linguistics is £55. The fee for the Diploma in Clinical Psychology is £60.

The fee for the Certificates in Medical Social Work and Educational Studies is £35. The fee for the Certificates in Social Study, Psychiatric Social Work and Nursing Studies is £35 per annum. The fee for the Certificate in Public Administration is £22, 10s. per annum. Students studying for the Certificate in Psychiatric Social Work are required to meet an additional expenditure of about £10 in connection with visits arranged during the course.

A fee of £3 is payable in respect of late payment of the annual, diploma and certificate fees.

The single-class fee, for tuition and one diet of examination, for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class, and £10 for a three-term class, but for a two-term or three-term class which meets on fewer than thirty occasions the fee is £5. A practical class counts as a separate class, but when it is taken in conjunction with the appropriate theoretical course in the same subject the combined fee for the lecture and practical courses is £7, 10s., £12 and £15 for classes of one, two and three terms respectively. Non-graduating students taking more than one class are required to pay the annual fee.

Laboratory deposits, refunded at the end of the course, less a deduction for breakages, are exigible in the following classes:—Chemistry, First Ordinary: £3; Second Ordinary: £5.

The re-examination fee for subjects for the M.A., B.Ed. and B.Com. degrees and for the Diplomas and Certificates is £1, 10s. per subject and 15s. per half-subject.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays,

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16th November, and after at the Matriculation Office, Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon, Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree, diploma, certificate and non-graduating students are required to submit the following documents, duly completed:—

Matriculation Form A

Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)

Form of Account for Fees (where these are payable by local authority or other public body).

Director of Studies' note of prescribed classes

X-ray Certificate

Carnegie Trust Coupon (if any).

Matriculation Forms and Form of Account for Fees are available at the place of enrolment.

C.A. students enrolling for obligatory classes in connection with their course of study do not require to submit a Director of Studies' note of prescribed classes.

Non-matriculated students paying an entrance fee of £1 and taking classes marked with an asterisk in the table of courses require to submit

Entrance Form C

Enrolment Form

X-ray Certificate.

Students who require evidence of enrolment in order to obtain payment of their grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree, Diploma and Certificate Examinations

Entries for degree, diploma and certificate examinations are received at the Matriculation Office, The Old College, from 10-12.30 and 2-4 during term and from 10-12.30 on Saturdays and during the summer vacation on the following dates:

December Social Study Certificate examination 2nd December 1959

February-March degree, diploma and certificate examinations 19th February 1960

Diploma in Actuarial Mathematics examinations 11th March 1960

May-June degree examinations (Final Honours and Intermediate Honours courses) 5th May 1960

June B.Ed. and Diploma in Education examinations 7th May 1960

May-June degree examinations (Ordinary courses) and all diploma (except Actuarial Mathematics and Education) and certificate examinations 10th-12th May 1960

September examinations 8th-9th August 1960

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a late entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry.

Candidates for the September degree examinations must also give additional notice to the Matriculation Office on or before 11th July, if they wish to be examined in any of the following subjects:— Arabic (Ordinary and Intermediate Honours), Celtic (Ordinary and Intermediate Honours), Education, English Language (Ordinary and Intermediate Honours), Fine Art (Ordinary), Greek (Intermediate Honours), Hebrew (Ordinary and Intermediate Honours), Italian (Intermediate Honours), Latin (Intermediate Honours), Political Economy (Second Ordinary), Prehistoric Archaeology (Ordinary), and Sanskrit (Ordinary and Intermediate Honours).

Degree, diploma and certificate candidates for examination must be matriculated for the academic year in which the examination falls. On entering for an examination a student must present his matriculation card. He must also show, at the same time if possible or at least before the day of the examination, his class certificates. These certificates are valid for the corresponding degree examinations of the year in which they are issued and of the year following. Thereafter they will not admit to a degree examination without the special permission of the Dean. The stamping of examination cards with the words "Certificates examined" gives the candidate admission to the examination. A candidate must enter for each examination at which he wishes to appear, and must state the subjects or subject in which he wishes to be examined. M.A. candidates who intend to use a pass in Civil (Roman) Law, Constitutional Law, or Public Law later for the LL.B. degree must pass the M.A. examination on the LL.B. standard; and in entering for the examination they must *expressly* state that they appear on this standard. In entering for Honours examinations in which there are optional subjects, candidates must state in which of the options they are appearing for examination.

If a degree or diploma candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may on good cause shown, be allowed to appear at a subsequent diet without payment of the re-examination fee. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh".

GRADUATION

Registration and Entry

Every student who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, must present the certificates of degree passes, and must pay £1 for registration as a member of the General Council, if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering their names for graduation, graduands must show their final inclusive-fee cards and current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

Graduation Ceremonial

Men graduands for the degrees of M.A., B.Com., B.Ed., Ph.D. and D.Litt., are requested to appear in black or dark coloured clothes, white starched collars,

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and white bow neckties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degrees to be conferred. The form of gown worn for the degrees of M.A., B.Com., B.Ed. and Ph.D. is one of black silk or stuff with long sleeves. The hoods are as follows:—For M.A.—black silk, lined with white silk; for B.Com.—black silk, lined with pale primrose yellow silk, and edged with white fur; for B.Ed.—black silk, lined with pale blue silk, and edged with white fur; and for Ph.D.—black cloth, lined with silk shot with brown. For the academic dress for other degrees, see UNIVERSITY CALENDAR "Academic Costume". There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation

The Sponsio Academica at graduation is:—"Nos qui nomina subsignamus siue baccalaureatus siue magisterii siue doctoratus titulo iamiam donandi spondemus nos in omni debitae gratitudinis officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum perseueraturos".¹

DEGREE OF MASTER OF ARTS REGULATIONS

Academical Year

I. The academical year shall commence on the first day of October. It shall include at least twenty-five teaching weeks, and shall be divided into three periods. The days on which classes shall open and close in each period shall be determined by the Senatus with the approval of the University Court. For the purpose of reckoning duration of study in any subject, an academical year shall be constituted by attendance on at least one course of study in each of the three periods aforesaid, but it shall be in the power of the Senatus, with the approval of the University Court, to accept attendance on at least one course of study in each of two of the periods aforesaid, as completing an academical year.

II. The curriculum for the degree of Master of Arts (M.A.) shall extend over not less than three academical years.

Preliminary Qualifications and Admission to Classes

See Programme of Admission, pp. 5-8.

Ordinary Degree

VI. The curriculum for the Ordinary degree shall consist of five subjects, of which two subjects shall each be studied for two academical years²; and the degree examinations in these two subjects shall be on a higher standard than the degree examinations in the other three subjects; provided that it shall be in the power of the Senatus, with the approval of the University Court, to reckon courses in two cognate subjects (and, wherever so determined by the Senatus and University Court, studied in separate academical years) as two courses in one subject: provided that it shall be in the power of the Senatus with the approval of the University Court, to exact a higher standard in a degree examination in one of the two cognate subjects than the standard required for the subject when studied in a single course.

¹ TRANSLATION:—"We, the undersigned, upon whom the degree of bachelor or master or doctor is now to be conferred promise that we will to our latest breath abide in all due loyalty to the University of Edinburgh."

² *i.e.* seven qualifying courses in all (see p. 304).

VII. (1) Each of the subjects must be studied in a full course, but two half-courses in one subject or in two cognate subjects, or a qualifying Honours course as hereinafter defined, may be held to be equivalent to a full course in one subject in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(2) A full course shall consist of not less than seventy-five meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction full courses of less than seventy-five meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

A half-course shall consist of not less than forty meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction half-courses of less than forty meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Degree with Honours

XI. (1) The degree of Master of Arts may be taken with Honours in any group (consisting of a subject or subjects) in which Honours classes, conducted by at least two separate Professors or Lecturers, have been established [Sanskrit is excepted from this regulation].

(2) The Senatus, with the approval of the University Court, shall have power to make from time to time regulations regarding the definition and grouping of the subjects in each of the recognised groups, the selection of subjects for the curriculum, their classification as cognate, and the order in which the subjects are to be studied, and also regarding the standard of the Honours examinations and the conditions of admission thereto.

(3) Every candidate shall take up at least two subjects outside his Honours Group.

(4) Every candidate shall attend seven classes, taking at least four classes (two of which at least shall be Honours classes under separate Professors or Lecturers) in his Honours Group.

(5) A candidate who has obtained Honours in any one group may, under such regulations as may be laid down from time to time by the Senatus, with the approval of the University Court, present himself again for examination in a second Honours Group. In such a case, if the two groups do not overlap, he shall not be required to take any subject or class outside his Honours Groups.

(6) The examination in the subjects comprised in the candidate's Honours Group or Groups shall be of a higher standard than that required for the Ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the Ordinary degree.

(7) The provisions of Section VII of this Ordinance shall apply to candidates for Honours; but, in their case, not fewer than fifty meetings of the whole class, on separate days, extending over at least two periods of the academical year, shall constitute a full course for an Honours class; and not fewer than twenty-five meetings of the whole class on separate days, extending over at least one of the periods of the academical year, shall constitute a half-course; and two half-courses so sanctioned shall be held to be equivalent to a qualifying Honours course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

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XII. Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study, and determine the relative proportion of lectures and laboratory or practical work.

XIII. (1) In each group there shall be three grades of Honours, to be denominated respectively the first, second and third class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours the graduate shall receive a diploma setting forth the subjects in which he has passed with Honours, and those in which he has passed in the standard required for the Ordinary degree.

(3) A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the Ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the Ordinary degree of Master of Arts.

General

XIX. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has regularly attended the class, but also that he has duly performed the work thereof.

XX. A student who has given attendance at classes recognised as qualifying for graduation in Arts during one or more academical years in any one or more of the other Scottish Universities, may complete his curriculum by giving attendance during the remainder of his course in the University of Edinburgh, and may proceed to a degree in that University, in the same way, in all respects, as if the previous part of his curriculum had been taken therein; provided always that no such student shall be admitted to a degree in the University of Edinburgh unless he has attended qualifying classes therein during the whole of the last academical year of his curriculum. Further, the Senatus may accept, under such conditions as they may from time to time prescribe, attendance at other universities specially recognised by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted, shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.¹

XXII. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.²

ADDITIONAL REGULATIONS

Admission of Students from Other Universities

1. Undergraduates who have attended courses and passed examinations qualifying for the degree of M.A. in another Scottish University are entitled to count such attendances and passes as qualifying for the Edinburgh degree; provided that they attend qualifying courses in Edinburgh during the whole of their final year, and that the subjects and standards of the courses taken elsewhere conform to the regulations for the Edinburgh degree.

2. An applicant who has taken a degree at an officially recognised university outside Scotland may be exempted from one year's attendance at this University; he may also be exempted from attending the courses and passing the degree

¹ See below.

² Subject to the qualification stated in the Programme of Admission in the note on p. 4.

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examinations in not more than two of the subjects on the standard of the Ordinary M.A. degree which have been included in the curriculum for the degree he already holds; provided that the Faculty of Arts is satisfied that the standard of the course or courses in respect of which such exemption is applied for, and of his performance therein, is sufficient.

3. An applicant who has attended courses in an officially recognised university outside Scotland for not less than one year, and has passed in such university an Intermediate examination¹ for a degree may be exempted from one year's attendance at this University; he may also be exempted from attendance on not more than two courses in subjects on the standard of the Ordinary M.A. degree which have been included in such Intermediate examination; provided that he shall present himself for the degree examination in these subjects in this University; and that the Faculty of Arts is satisfied that the standard of the course or courses in respect of which such exemption is applied for, and of his performance therein, is sufficient.

Ordinary Degree

I. SUBJECTS AND DEPARTMENTS OF STUDY.—The following are the subjects, classified under four Departments of Study, in which qualifying courses are established:—

1. LANGUAGE AND LITERATURE

Arabic ^{2 3}	English Language	Icelandic ^{2 3}	Russian ^{2 3}
Biblical Studies	French ³	Italian ^{2 3}	Sanskrit ^{2 3}
Celtic ^{2 3}	German ³	Latin ³	Spanish ^{2 3}
English Literature ³	Greek ^{2 3 4}	Music ³	Turkish ^{2 3}
	Hebrew ^{2 3}	Persian ^{2 3}	Urdu ^{2 3}

2. MENTAL PHILOSOPHY

Economic Geography	Moral Philosophy
Education (may be taken for graduation only by students taking a course at a training college for teachers, and not before their fourth year in Arts)	Political Economy
Logic and Metaphysics	Psychology
	Social Anthropology
	Social Philosophy

3. SCIENCE

Astronomy ³	Mathematical Physics ³
Botany	Meteorology ³
Chemistry ³	Natural Philosophy ³
Geography	Phonetics ²
Geology	Technical Mathematics ³
Mathematics ³	Zoology

4. HISTORY AND LAW

Ancient (Greek and Roman) History ³	Economic History
British History	European History
Comparative Constitutions	Fine Art
Constitutional Law	Prehistoric Archaeology
Imperial and American History	Public Law
Islamic History	Civil (Roman) Law ³
Ecclesiastical History ³	Scottish History

¹ A pass in an Intermediate examination of an Indian university does not exempt from attendance at any courses for the Ordinary M.A. degree or the B.Sc. in Pure Science.

² In addition to the qualifying classes, there are elementary or introductory classes in Arabic, Celtic, Greek, Hebrew, Hindi, Icelandic, Italian, Persian, Phonetics, Russian, Sanskrit, Spanish, Turkish and Urdu.

³ For the Special Entrance Qualifications for these classes, not necessarily covered by an Attestation of Fitness, see Programme of Admission, pp. 6-9.

⁴ There is a non-qualifying elementary class in New Testament Greek, intended primarily for students proposing to enter the ministry.

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II. NUMBER OF COURSES TO BE INCLUDED IN THE CURRICULUM.—A. Regulation applying to students who entered on the M.A. curriculum in session 1958-59 or earlier. Such students may, however, opt to adhere to the new Regulations IIB and IIIB.

Every curriculum for the Ordinary degree must include not less than seven qualifying courses from the list just given; others beyond this minimum number may be taken if approved by the student's Director of Studies. Three of the courses in the minimum number must be single courses in separate subjects studied each for three (or, in certain courses, two) terms during one academic year; the other four courses must constitute two double courses. By a double course is meant **either** (a) two different courses in the same subject studied in two separate (not necessarily consecutive) academic years, the second course being more advanced than the first; or (b) one course in each of two specified cognate subjects studied in two separate (not necessarily consecutive) academic years, the standard required in the second subject being higher than in the first. At least one of the double courses must be of the first or (a) variety (for this purpose the double courses consisting of two classes in different branches of History are all reckoned as of the (a) variety); the other may be also, provided that not more than four courses from the Department of Language and Literature are thereby included in the minimum of seven courses (for this purpose Music is not considered a subject within the Department of Language and Literature). It is, however, possible to include more than four Language and Literature courses by taking one or more classes in single courses in addition to the minimum. A student must pass the first part of a double course of the (a) variety before attending the second.

(a) Double courses in the same subject studied for two separate academic years, the second course being more advanced than the first (see Note 3, p. 303).

1. LANGUAGE AND LITERATURE

Arabic, Ordinary and Intermediate Honours
Biblical Studies, First and Second Ordinary
Celtic, First and Second Ordinary
English Language, Ordinary and Intermediate Honours
English Literature, First Ordinary and *either* Second Ordinary *or* English Language
French, First and Second Ordinary
German, First and Second Ordinary
Greek, First and Second Ordinary
Hebrew, Senior and Honours
Italian, Ordinary and Intermediate Honours
Latin, First Ordinary and *either* Second Ordinary *or* Intermediate Honours
Music, First and Second Ordinary
Persian, Ordinary and Intermediate Honours
Russian, First and Second Ordinary
Sanskrit, Ordinary and Honours
Spanish, First Ordinary and *either* Second Ordinary *or* Intermediate Honours
Turkish, Ordinary and Intermediate Honours
Urdu, Ordinary and Intermediate Honours

2. MENTAL PHILOSOPHY

Logic and Metaphysics, Ordinary and Intermediate Honours
Political Economy, Ordinary and Intermediate Honours
Psychology, First and Second Ordinary
Social Anthropology, Ordinary and Intermediate Honours

3. SCIENCE ¹

Botany, First and Second Ordinary
 Chemistry, First and Second Ordinary
 Geography, First and Second Ordinary
 Geology, First and Second Ordinary
 Mathematical Physics, Ordinary and Intermediate Honours
 Mathematics, *either* First and Second Ordinary *or* Second Ordinary and Intermediate Honours
 Natural Philosophy, First and Second Ordinary
 Technical Mathematics, First and Second Courses
 Zoology, First and Second Ordinary

4. HISTORY AND LAW

British History and *either* Imperial and American History *or* European History *or* Constitutional Law
 Economic History, First and Second Ordinary
 Scottish History, First and Second Ordinary
 Scottish History and Economic History (Second Ordinary)
 (b) Double courses in cognate subjects studied for two separate academic years, the standard required in one subject being higher than in the other (see Note 3, p. 303).
 Economic Geography and Geography
 Economic History and *either* Political Economy *or* Social Philosophy
 Geography and *either* Prehistoric Archaeology *or* Economic Geography
 Geology and *either* Geography *or* Prehistoric Archaeology
 Latin and Civil (Roman) Law
 Logic and Metaphysics and *either* Moral Philosophy *or* Social Philosophy
 Mathematics and *either* Mathematical Physics, *or* Astronomy, *or* Natural Philosophy
 Meteorology and *either* Geography *or* Geology
 Moral Philosophy and *either* Political Economy *or* Social Philosophy
 Natural Philosophy and *either* Mathematical Physics, *or* Meteorology
 Political Economy and *either* Economic History *or* Social Philosophy
 Psychology and Social Philosophy.

And except for the pairs or doubles in History shown under (a) above any two of the following courses will be recognised as constituting a double course in cognate subjects:—British History, European History, Constitutional Law, Scottish History, Ecclesiastical History, Economic History, First or Second Ordinary, Ancient (Greek and Roman) History, Imperial and American History, Islamic History, Prehistoric Archaeology, Fine Art, Comparative Constitutions. Any of the double courses consisting of two classes in different branches of History will satisfy the regulation that every curriculum must include at least one double course in a single subject.

B. Regulation applying to students entering on the M.A. curriculum in session 1959-60. Students already studying for the degree may opt to adhere to the new Regulations IIB and IIIB.

Every curriculum for the Ordinary degree must include not less than seven qualifying courses from the list given in Regulation No. I; others beyond this number may be taken if approved by the student's Director of Studies. Three of the courses in the minimum number must be single courses in separate subjects studied each for three (or, in certain cases, two) terms during one academic year; the other four courses must constitute two double courses chosen from the list below. The second part of a double course is of a higher standard than the first. The two parts of a double course must be studied in two separate (not

¹ A student who has failed twice in any subject in the Department of Science is not permitted to attend a higher course in that subject without the permission of the teacher.

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necessarily consecutive) academic years. A student must pass the first part of a double course before entering upon the second.

Every student must include in his curriculum for the Ordinary degree one subject from at least three of the four Departments of Study.

Not more than four courses from any one Department of Study may be included in a minimum curriculum (the subjects Constitutional Law, Public Law and Civil (Roman) Law, being deemed, for this purpose only, to constitute a separate Department of Study).

Double Courses

1. LANGUAGE AND LITERATURE

Arabic, Ordinary and Intermediate Honours
Biblical Studies, First and Second Ordinary
Celtic, First and Second Ordinary
English Language, Ordinary and Intermediate Honours
English Literature, First Ordinary and *either* Second Ordinary *or* English Language
French, First and Second Ordinary
German, First and Second Ordinary
Greek, First and Second Ordinary
Hebrew, Senior and Honours
Italian, Ordinary and Intermediate Honours
Latin, First Ordinary and *either* Second Ordinary *or* Intermediate Honours
Music, First and Second Ordinary
Persian, Ordinary and Intermediate Honours
Russian, First and Second Ordinary
Sanskrit, Ordinary and Honours
Spanish, First Ordinary and *either* Second Ordinary *or* Intermediate Honours
Turkish, Ordinary and Intermediate Honours
Urdu, Ordinary and Intermediate Honours

2. MENTAL PHILOSOPHY

Logic and Metaphysics, Ordinary and Intermediate Honours
Political Economy, Ordinary and Intermediate Honours
Psychology, First and Second Ordinary
Social Anthropology, Ordinary and Intermediate Honours

3. SCIENCE ¹

Botany, First and Second Ordinary
Chemistry, First and Second Ordinary
Geography, First and Second Ordinary
Geology, First and Second Ordinary
Mathematical Physics, Ordinary and Intermediate Honours
Mathematics, *either* First and Second Ordinary *or* Second Ordinary and Intermediate Honours
Natural Philosophy, First and Second Ordinary
Technical Mathematics, First and Second Courses
Zoology, First and Second Ordinary

4. HISTORY AND LAW

Ancient History followed by European History *or* Ecclesiastical History (Ancient)
British History followed by European History *or* Imperial and American History *or* Constitutional Law *or* Ecclesiastical History (Modern) *or* Scottish History (Second Ordinary) *or* Economic History *or* Economic History (Intermediate Honours) *or* Fine Art (Intermediate Honours)

¹ A student who has failed twice in any subject in the Department of Science is not permitted to attend a higher course in that subject without the permission of the teacher.

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Comparative Constitutions followed by Constitutional Law

Economic History, First and Second Ordinary

European History followed by Fine Art (Intermediate Honours)

Political Economy followed by Economic History *or* Economic History (Intermediate Honours)

Scottish History, First and Second Ordinary

Scottish History followed by European History *or* Imperial and American History *or* Constitutional Law *or* Ecclesiastical History (Modern) *or* Economic History *or* Economic History (Intermediate Honours)

Scottish History (Second Ordinary) followed by Economic History (Intermediate Honours)

III. RESTRICTIONS ON THE CURRICULUM.¹—A. *Regulation applying to students who entered on the M.A. curriculum in session 1958-59 or earlier. Such students may, however, opt to adhere to the new Regulations IIB and IIIB.*

Every curriculum must conform to one of the following four Types:—

Type A, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) Latin, or Greek, or an Oriental classical language
- (ii) English Literature or English Language, or a second foreign language (ancient or modern), or History (Ancient, or British, or European, or Scottish)
- (iii) A subject from the Department of Science
- (iv) Logic and Metaphysics, or Moral Philosophy

Type B, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) A double course in a modern foreign language
- (ii) A single course in a second modern foreign language
- (iii) English Literature or English Language, or History (British, or European, or Scottish), or a second, advanced course in the second modern foreign language
- (iv) A subject from the Department of Science
- (v) Logic and Metaphysics, or Moral Philosophy

Type C, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) The Second Ordinary course in Metaphysics (with or without previous attendance on the First Ordinary course), together with another subject from the Department of Science; or, alternatively, the First Ordinary course in Mathematics, together with any two other courses from the Department of Science
- (ii) A foreign language
- (iii) English Literature or English Language or History (Ancient, or British, or European, or Scottish), or Political Economy, or Psychology
- (iv) Logic and Metaphysics, or Moral Philosophy

Type D, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) History (Ancient, or British, or European, or Scottish)
- (ii) Political Economy
- (iii) A second course in History or Political Economy (being a second part of a double course in either subject)
- (iv) A foreign language (ancient or modern)
- (v) A subject from the Department of Science
- (vi) Logic and Metaphysics, or Moral Philosophy

¹ Students who are taking a curriculum in Arts in combination with one in Medicine may be allowed certain relaxations of the Additional Regulations II and III above, information regarding which will be given by their Director of Studies. Applications for admission to the Faculty of Medicine are made in the normal way (see Admission Programme), but through their Director in the case of students already in the Faculty of Arts.

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B. Regulation applying to students entering on the M.A. curriculum in session 1959-60. *Students already studying for the degree map opt to adhere to the new Regulations IIB and IIIB.*

Every curriculum must conform to one of the following four Types:—

Type A, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) Latin, or Greek, or an Oriental classical language
- (ii) English Literature or English Language, or a second foreign language (ancient or modern), or History (Ancient, or British, or European, or Scottish)
- (iii) Logic and Metaphysics, or Moral Philosophy, or Social Philosophy

Type B, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) A double course in a modern foreign language
- (ii) A single course in a second modern foreign language
- (iii) English Literature or English Language, or History (British, or European, or Scottish), or a second advanced course in the second modern foreign language
- (iv) Logic and Metaphysics, or Moral Philosophy, or Social Philosophy

Type C, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) The Second Ordinary course in Mathematics (with or without previous attendance on the First Ordinary course), together with another subject from the Department of Science; or, alternatively, the First Ordinary course in Mathematics, together with two other courses from the Department of Science
- (ii) English Literature or English Language or History (Ancient, or British, or European, or Scottish), or Political Economy, or Psychology
- (iii) Logic and Metaphysics, or Moral Philosophy, or Social Philosophy

Type D, the curriculum of which must include in the minimum of seven qualifying courses:—

- (i) History (Ancient, or British, or European, or Scottish)
- (ii) Political Economy
- (iii) A second course in History or Political Economy (being a second part of a double course in either subject)
- (iv) A foreign language (ancient or modern), or a subject from the Department of Science
- (v) Logic and Metaphysics, or Moral Philosophy, or Social Philosophy

IV. DEGREE EXAMINATIONS.—In each subject for the Ordinary degree there are two degree examinations in the academic year. No student can take a degree examination in any subject without having obtained either a merit certificate or a certificate of attendance and due performance of the work of the class. These certificates are valid for the corresponding degree examinations of the year in which they are earned, and of the year following.

V. EXEMPTION FROM DEGREE PRACTICAL EXAMINATIONS.—A merit certificate in the class practical examinations in the following courses may exempt from the corresponding degree practical examinations:—Astronomy, First and Second Ordinary Chemistry, First and Second Ordinary Geology, Meteorology.

VI. COMBINED DEGREES.—If the M.A. degree is combined with one of the following, B.Com., LL.B., B.L., B.Sc., or M.B., Ch.B.,¹ not more than three full courses common to the two degrees may be used to qualify for the M.A. degree. Students who combine the M.A. and the B.Sc. degrees must spend at least two years on courses which qualify for the M.A. degree only. The minimum

¹ See p. 307, note 1.

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time for the combined M.A. and either B.Com., or LL.B., or B.L., or B.Sc. degrees is five years. The minimum time for the combined M.A. and M.B., Ch.B. degrees is eight years; for any combination of three degrees (not including M.B., Ch.B.), seven years; and for the combination of M.B., Ch.B. with any two other degrees, nine years (the Senatus may relax the regulation requiring a minimum of nine years for the triple degrees in special cases). The courses for each year for all combined degrees must be approved by the respective Directors of Studies.

Honours Degree

I. HONOURS GROUPS.—The degree can be taken with Honours in any one of the following Groups:—

- (a) Archæology
- (b) Celtic Studies (*i.e.* Celtic, with French, German, Greek, or Latin as a secondary subject)
- (c) Classics (*i.e.* Latin and Greek, along with special subjects)
- (d) Economic Science (*i.e.* Economic History, Political Economy, Political Science, and Statistics)
- (e) English Language and Literature
- (f) Fine Art
- (g) French Language and Literature
- (h) Geography
- (i) History
- (j) Mathematics and Natural Philosophy
- (k) Mental Philosophy
- (l) Modern Languages ¹:—
 - (1) Arabic, with Latin, Greek, Persian, Spanish, Turkish or Urdu as a secondary language
 - (2) French, with Celtic, German, Italian, Latin, Russian, Spanish or Greek as a secondary language
 - (3) German, with Celtic, French, Italian, Latin, Russian, Spanish or Greek as a secondary language
 - (4) Italian, with French or Spanish or Latin as a secondary language
 - (5) Persian, with Arabic as a secondary language
 - (6) Spanish, with Arabic, Celtic, French, German or Latin as a secondary language; other secondary languages may be offered with the approval of the Faculty
 - (7) Turkish, with Arabic as a secondary language
 - (8) Russian, with classical or modern foreign languages as a secondary language
- (m) Psychology
- (n) Sanskrit
- (o) Scottish Historical Studies
- (p) Semitic Languages
- (q) Social Anthropology with Human Geography as a secondary subject.

II. SUBJECTS OUTSIDE HONOURS GROUP.—The two subjects to be taken outside the candidates's Honours Group must be passed before he proceeds to his Honours examination. In the several Groups the choice of outside subjects is restricted as follows:—

Archæology Group, candidates must take an ancient or modern foreign, language;

Classics Group, candidates must take at least one of the following:—British or European History, English, Logic and Metaphysics, Moral Philosophy Political Economy, Public Law;

¹ See Section III of these regulations for regulations governing (a) double Honours in Modern Languages and (b) Honours in English Language and Literature followed by Honours in a Modern Language.

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Economic Science Group, candidates must take at least one of the following:—British History, Constitutional Law, Economic Geography, European History, Geography, Logic and Metaphysics, Mathematics, a modern foreign language, Moral Philosophy, Psychology;

English Group, candidates must take British History ;

Fine Art Group, candidates must take Moral Philosophy, Logic and Metaphysics or European History;

French Language and Literature, candidates must in their first year take Phonetics as one of the necessary two subjects outside their Honours Group. Those who do not select either Italian or Spanish as their second outside subject and particularly those whose bent is towards Philology, are advised to acquire a knowledge of at least one of these languages as early in their course as possible.

Geography Group, candidates must take as one of their outside subjects one of the following: Political Economy, Economic History, Social Anthropology, European History, British History, Scottish History, Prehistoric Archaeology;

History Group, candidates must take at least one of the following:—Moral Philosophy, Logic and Metaphysics, Political Economy, but may not take the ordinary course in Ancient History as a qualifying subject outside their Honours Group;

Mathematics and Natural Philosophy Group, candidates must take *either* (a) Moral Philosophy, or Logic and Metaphysics, or a subject in the Department of Language and Literature; together with one of the following:—Astronomy, Botany, Chemistry, Geography, Geology, Meteorology, Phonetics, Zoology, *or* (b) two subjects neither of which is in the Department of Science;

Mental Philosophy Group, candidates must take at least one of the following:—English, Fine Art, Greek, Mathematics, Natural Philosophy;

Modern Languages, Sanskrit, and Semitic Languages Groups, candidates must take at least one of the following:—British or European History, English, Fine Art, Geography, Logic and Metaphysics, Moral Philosophy, Phonetics, Political Economy, Public Law;

Psychology Group, candidates must take at least one of the following: First or Second Ordinary Mathematics, Political Economy, Moral Philosophy;

Social Anthropology Group, candidates must take Psychology (First Ordinary).

III. ENTRY FOR HONOURS AND DURATION OF HONOURS CURRICULA.—An undergraduate candidate for the degree of M.A. with Honours in any Group is normally required to complete all the attendances and examinations for the degree within five years from the date of his first matriculation in Arts. But the Senatus may, on the recommendation of the Faculty of Arts:—(a) allow a candidate, in reckoning the said period of five years, to leave out of account, in whole or in part, any interval during which he has not been matriculated and attending classes in the Faculty; (b) on special cause shown, extend the period to not more than six years' study as a matriculated student in the Faculty. One who has graduated with an Ordinary M.A. degree may, subject to the permission of the Faculty, proceed after graduation to offer himself for Honours in any Group. The Senatus shall, on the recommendation of the Faculty and having regard to the limit of time imposed above, in each case determine within what aggregate period (before and after graduation) as a matriculated student in Arts such a candidate must complete the attendances and examinations for Honours. One who has obtained a class in an Honours examination in any Group may, subject to the permission of the Faculty, offer himself for examination for Honours in another Group. In such a case the further period of study as a matriculated student in Arts shall be determined by the Senatus,

on the recommendation of the Faculty. When the period of five years' study for Honours (or a period of seven years for double Honours) has been exceeded, the eligibility of the candidate for University fellowships, scholarships, bursaries, and prizes shall be affected as follows:— (a) when the condition of eligibility is the possession of an Honours degree **simpliciter**, the candidate shall not be eligible; (b) when eligibility is restricted to a specified period subsequent to the graduation with Honours, the period of eligibility shall be diminished by the number of years of study in excess of five years (or of seven years, in the case of double Honours).

Double Honours in Modern Languages. Students who have obtained first- or second-class Honours in Modern Languages with French, German, Italian, Russian or Spanish as principal subject and another of these languages as subsidiary subject, may proceed to the Final Honours examination in the second language after a further year's study and on fulfilment of the conditions specified in the curricula of the several departments.

Honours in English Language and Literature followed by Honours in a Modern Language. A student who has graduated with Honours in English Language and Literature may proceed, subject to approval by the Senatus Academicus, after one further year of study to the Final Honours examination in any one of the following languages—French, German, Italian, Russian, Spanish. Such a student must, before graduating, have passed the Intermediate Honours examination in the language chosen.

IV. INTERMEDIATE HONOURS EXAMINATION IN THE DEPARTMENT OF LANGUAGE AND LITERATURE.—A candidate who has failed in June may present himself again for examination in September of the same year. If he fails then (or does not then present himself for examination) he may present himself for a final attempt in either June or September following. "Passed with Credit" shall be inscribed on the certificate of candidates who attain a high standard in the Degree examination.

V. HONOURS EXAMINATION.—In each Honours Group there is one examination in the academic year. No candidate who has completed his Honours examination in any Group is allowed to present himself a second time for Honours in the same Group.

VI. COMBINED DEGREES.—The degree of M.A. with Honours in Mathematics and Natural Philosophy may not be combined with the degree of B.Sc. with Honours in Mathematical Science. It may be combined with the degree of B.Sc. with Honours in any other school provided the final Honours examinations for the M.A. and B.Sc. degrees do not include any paper in common. It may be combined with the Ordinary B.Sc. degree if not more than three full courses are used as qualifying for both degrees. [Approval will not be given to a curriculum which includes, in the minimum number of courses counted as qualifying for the Ordinary B.Sc. degree, more than three of the courses Mathematics I, II, III, Physics I, II, III, Mathematical Physics I, II, when the Honours M.A. degree is of Type A, or of the courses Mathematics I, II, III, Mathematical Physics I, II, III, Physics I when the M.A. degree is of Type B; or more than two of the above courses, if a course outside the Honours group is counted as qualifying for both degrees.] The courses for each year must be approved by the Director of Studies.

Failure to Complete Final Honours Examination

Where a candidate who fails to complete a final honours examination can produce satisfactory written evidence that the failure was due to reasons beyond his control, the examiners may either recommend the award of a Degree on the evidence available to them if this is sufficient or, if the candidate prefers, may recommend to the Senatus that he should be allowed to present himself for examination at the next diet.

DEGREE OF MASTER OF ARTS

COURSES OF INSTRUCTION

(A) Department of Language and Literature

HUMANITY (LATIN)

PROFESSOR I. M. CAMPBELL; Mr. POTTER, Reader; Mr. W. K. SMITH, Senior Lecturer; Mr. WELLESLEY, Mr. WEST, * * * and Dr. P. G. Walsh, Lecturers

First Ordinary Courses A and B

Entrance qualification:—The student shall have passed in Latin at the higher standard in the Leaving Certificate or the Preliminary Examination, or their equivalent.

Students intending to read for Honours in Classics or for Intermediate Honours in Latin are recommended to take Course B (after consultation with the Professor or the Lecturers, if necessary).

Class hours:—Tues., Wed., Thurs. and Fri. at 10 in autumn and spring; Tues., Wed. and Thurs. at 10 in summer.

Lectures are given on Roman literature and history and on the text of prescribed authors. Tutorial instruction is arranged weekly when compositions are reviewed and discussed. Test papers in composition or unseen translation are set from time to time.

Books required:—A senior school grammar such as Sonnenschein or Allen; Cary, *History of Rome*, or Robinson, *A History of Rome from 753 B.C. to A.D. 410*; Grant, *Roman Literature*; also for Course B, Hardie, *Latin Prose Composition*, and either Buckland Green, *Notes on Greek and Latin Syntax*, or Moore, *Comparative Greek and Latin Syntax*. Advice is given by the lecturers as to the best editions of the authors prescribed.

Books recommended for reference: Cary and Haarhoff, *Life and Thought in the Greek and Roman World*; Marsh (revised by Scullard), *History of the Roman World, 146-30 B.C.*; Carcopino, *Daily Life in Ancient Rome*; Moore, *The Roman Commonwealth*; Grosche-Hodge, *Roman Panorama*; Barrow, *The Romans* (Pelican series); Harvey, *The Oxford Companion to Classical Literature*; Middleton and Mills, *Companion to Latin Authors*; *Oxford Classical Dictionary*; *Companion to Latin Studies*, ed. Sandys; Wormald, *Latin Prose Composition*; Bradley's Arnold (revised by Mountford), *Latin Prose*; Cooper, *Introduction to the Hexameter*; an atlas of the ancient world.

Class examination dates, see p. 474.

DEGREE EXAMINATION

Three papers are set, one being upon the books read during the previous autumn and spring terms. Exemption from this paper is gained by a satisfactory performance in the class examinations of the same academic year. Proficiency must be shown in each of:—

(i) Prose composition. (ii) Unseen translation. (iii) Roman history from 81 B.C. to A.D. 14, together with the historical background of prescribed books. (iv) Roman literature in outline to the death of Trajan, and a more detailed knowledge of the lives and writings of prescribed authors.

Prescribed books:—

Course A: Virgil, *Georgics* ii and *Æneid* xii; Cicero, *Pro Archia*; Livy xxx; Horace, *Odes* ii, and *Satires* ii, 1, 2, 6, 7; Tacitus, *Annals* xiv; Plautus, *Mostellaria*.

Courses of Instruction (Lang. and Lit.)

Course B: Virgil, *Georgics* ii; Cicero, *Verrines* v; Horace, *Odes* ii, and *Satires* ii, 1, 2, 6, 7; Tacitus, *Annals* xiv; Livy xxx; Terence, *Phormio*; Ovid, *Metamorphoses* viii.

Second Ordinary Course

Mon., Tues., Wed. and Fri. at 10 in autumn and spring; Mon., Tues., and Wed. at 10 in summer.

Entrance qualification:—The student shall have passed the First Ordinary degree examination.

Books required:—As for the First Ordinary courses.

Books recommended for reference:—As for the First Ordinary courses.

Class examination dates, *see* p. 474.

DEGREE EXAMINATION

The papers and subjects of examination are the same as for the First Ordinary courses except that the history period extends from 133 B.C. to A.D. 69.

Prescribed books:—Virgil, *Eclogues* i, iv, vii, x; Cicero, *Verrines* v; Horace, *Satires* ii, 1, 2, 6, 7; Livy v; Ovid, *Metamorphoses* viii; Sallust, *Catiline*; H. W. Garrod, *A Book of Latin Verse*.

Double Course

A double course in Latin (pp. 304, 312-13) consists of either of the First Ordinary courses and then *either* (a) the Second Ordinary course *or* (b) the Intermediate Honours course. Students permitted to choose alternative (b) are examined at the Intermediate Honours degree examination, but a lower standard is required of them than of Intermediate Honours candidates.

Course in Late and Ecclesiastical Latin

Wed. at 11 in summer. This short course of reading in Late and Ecclesiastical Latin is intended for students who take Latin as a secondary language for Honours in Modern Languages or Celtic Studies, but students reading for Honours in other groups are also admitted.

Intermediate Honours and Honours Courses (*see* p. 314)

GREEK

PROFESSOR BEATTIE; Dr. BORTHWICK, Mr. STOKES and Mr. ROBINSON, Lecturers; Mr. F. J. SCOTT, Part-time Lecturer

Elementary Course

Twice weekly in autumn and spring and occasionally in summer, at times to be arranged. The class is designed for students with no previous knowledge of Greek who intend to proceed later to the First Ordinary course in Greek.

First Ordinary Course

Entrance qualification:—The student shall have passed the Leaving Certificate Examination in Greek on the higher standard or an equivalent examination.

Faculty of Arts

Class hours:—Tues., Wed., Thurs., Fri. at 11 in autumn and spring; Tues., Wed., Thurs. at 11 in summer. Tutorial instruction is also given at times to be arranged.

The work of the class consists of (i) reading of Greek authors; (ii) lectures on Greek literature, history and philosophy, including prescribed texts; (iii) exercises in unseen translation and prose composition; (iv) written examinations on class-work, usually held at the end of each term.

Class examination dates, *see* p. 474.

DEGREE EXAMINATION

Three papers are set on the following subjects:—

1. Prose composition.
2. Unseen translation.
3. (i) Prescribed books; (ii) History of Greek literature.

Students who obtain a satisfactory standard in the terminal examinations on prescribed books are exempted from section (i) of paper 3.

Prescribed books and subjects for 1960:—Homer, *Iliad* vi, ix; Sophocles, *Ajax*; Aristophanes, *Acharnians*; Thucydides iii; Plato, *Apology*; Demosthenes xxxiv, xxxix, liv; the history of Greek literature from 600 to 300 B.C., together with study of the authors of the prescribed books.

Second Ordinary Course

Entrance qualification:—The student shall have passed the degree examination on the Ordinary standard.

Students admitted to the course attend the Intermediate Honours class in Greek and perform the work prescribed for that class.

DEGREE EXAMINATION

The examination is the same as that for Intermediate Honours, but the standard for a pass is not so high.

Intermediate Honours and Honours Courses (see below)

DEGREE OF M.A. WITH HONOURS IN CLASSICS

AND LATIN AND GREEK AS SECONDARY LANGUAGES FOR THE DEGREE OF M.A.
WITH HONOURS IN CELTIC STUDIES AND IN MODERN LANGUAGES

Latin—PROFESSOR I. M. CAMPBELL, Mr. POTTER, Mr. W. K. SMITH, Mr WELLESLEY, Mr. WEST

Greek—PROFESSOR BEATTIE, Dr. BORTHWICK, Mr. STOKES and Mr. ROBINSON

Classical Philology—Mr. STOKES

Ancient Philosophy—Mr. COXON

Ancient History—Dr. CADOUX and Dr. WALSH

Classical Archaeology—Mr. GOUGH

The curriculum for the degree with Honours in Classics is subject to the regulations for the degree of M.A. with Honours. It normally lasts four years, during which students are required to attend the following courses:—

1st Year:

First Ordinary Latin.

First Ordinary Greek; and another subject on the Ordinary standard.

An introductory course in Classical Art and Archaeology will also normally be taken in the summer term of this year.

2nd Year:

Intermediate Honours Latin.

Intermediate Honours Greek; and a further subject on the Ordinary standard.

An introductory course in Ancient Philosophy will also normally be taken in the summer term of this year.

3rd and 4th Years:

In both years Latin Honours, Greek Honours, and (autumn term) Ancient History Honours; and classes (two terms in all) in *one* of the following subjects, to be selected by the student—Ancient History, Ancient Philosophy, Classical Archæology, Classical Philology.

The curriculum for the degree with Honours in Arabic, Celtic, French, German, and Spanish may include Greek or Latin as a secondary language. Students attend in their first year the Ordinary course in Greek or the First Ordinary course in Latin, and in their second year the Intermediate Honours course in Greek or Latin. The work prescribed in the Intermediate Honours classes for students taking Greek or Latin as a secondary language is the same as that prescribed for students of Classics, except that those who take Latin as a secondary language attend in the summer term a course of lectures on a prescribed book and the course in Late and Ecclesiastical Latin.

Candidates for Honours in French with Latin as a secondary language may in special circumstances be allowed to take the degree examination for Intermediate Honours Latin at the end of their third year of study.

Intermediate Honours Courses in Latin and Greek

Latin

Entrance qualifications:—The student shall have gained (a) a merit certificate in the First or Second Ordinary class and (b) a pass in the degree examination on the Ordinary standard. In special circumstances a candidate may be permitted by the Professor of Humanity to enter the class without having fulfilled these requirements.

Class hours:—Tues., Wed., Thur. and Fri. at 11 in autumn and spring and usually Tues. at 11 in summer; with tutorial instruction at times to be arranged.

Class examination dates, *see* p. 474.

Greek

Entrance qualifications:—The student shall have gained (a) a merit certificate in the First Ordinary class and (b) a pass in the degree examination on the Ordinary standard. In special circumstances a candidate may be permitted by the Professor of Greek to enter the class without having fulfilled these requirements.

Class hours:—Tues., Wed., Thurs. and Fri. at 12 in autumn and spring and usually Tues. at 12 in summer; with tutorial instruction at times to be arranged.

Class examination dates, *see* p. 474.

DEGREE EXAMINATIONS

Four papers are set in Latin, and four in Greek, as follows:—

1. Prose composition.
2. Unseen translation.
3. Translation from prescribed books.
4. Commentary on prescribed books.

Faculty of Arts

Exemption from 3 and 4 is granted, provided that a satisfactory standard has been reached in the class examinations

(a) in Greek, to candidates for Intermediate Honours,

(b) in both Latin and Greek, to candidates for the Ordinary degree of M.A.

Prescribed books:—

Latin

1960:—Virgil, *Georgics* ii and iii; *Æneid* i-vi; Plautus, *Mostellaria*; Cicero, *De Officiis* iii; Tibullus (selections); Pliny, *Epistles* vi; Petronius, *Cena Trimalchionis*; with Horace, *Ars Poetica*.

1961: Horace, *Odes* ii and iv; *Epistles* i and ii; Cicero, *De Oratore* i; Ovid, *Tristia* iii; Quintilian x; Juvenal, *Satires* i, iii, vii; Apuleius, *Cupid and Psyche*; with Catullus (selections).

Greek

1960:—Homer, *Iliad* i, iii, iv, v, vi; Æschylus, *Persæ*; Herodotus i; Sophocles, *Edipus Rex*; Plato, *Protagoras*; Demosthenes xviii; Plutarch, *Pelopidas*; History of Greek literature from the beginnings to 200 B.C.

1961:—Homer, *Odyssey* viii-xii; Æschylus, *Prometheus*; Herodotus vi; Euripides, *Ion*; Plato, *Protagoras*; Demosthenes xxi; Plutarch, *Pelopidas*; History of Greek literature from the beginnings to 200 B.C.

Honours Courses in Classics

Entrance Qualifications:—The student shall have (a) passed the degree examination on the Intermediate Honours standard in Greek and in Latin or (b) obtained a merit certificate in the Intermediate Honours classes in Greek and in Latin. In special circumstances a student may be permitted by the Professors of Humanity and Greek to enter the Honours classes without having fulfilled these requirements.

Class Hours:—

Latin Honours: Tues., Wed., Thurs. and Fri. at 11 in autumn and spring;
Tues., Wed., and Thurs. at 11 in summer.

Greek Honours: Tues., Wed., Thurs. and Fri. at 10 in autumn and spring;
Tues., Wed. and Thurs. at 10 in summer.

Ancient History: Tues., Thurs. and Fri. at 2 in autumn.

Special subject:—

Ancient History: Tues., Thurs. and Fri. at 2 in spring.

or

Ancient Philosophy: at times to be arranged.

or

Classical Archæology: three days a week on days to be arranged at 9 in spring and 12 in summer in the third year of study.

or

Classical Philology: at times to be arranged.

Class Work:—

Students are expected to reach proficiency in the Greek and Latin languages and to acquire a general knowledge of ancient literature, antiquities, history and philosophy, and in addition a more detailed knowledge of the prescribed books in Greek and Latin and the prescribed periods of Ancient History, viz. Greek History, 478-421 B.C.; Roman History, 62 B.C.-A.D. 14.

Courses of Instruction (Lang. and Lit.)

In study of their SPECIAL SUBJECT, students are required to make use as far as possible of ancient literary sources and other documents. Instruction is provided as follows:—

Ancient History:—(a) Greek History, 600-479 B.C.

(b) Greek History, 421-386 B.C.

(c) Roman History, 133-63 B.C.

(d) Roman History, A.D. 14-68.

One of these courses is provided each year. Students will attend (a) or (b) and (c) or (d), as courses are provided.

Ancient Philosophy:—(a) The earlier dialogues of Plato.

(b) Aristotle and later schools.

Students will attend either (a) or (b).

Classical Archæology:—(a) Greek and Roman sculpture.

(b) Greek and Roman architecture.

(c) Greek vase-painting.

(d) Roman Britain.

Students will attend (a), (b), (c) and (d).

Classical Philology:—(a) The outline of the history of the Indo-European languages.

(b) The phonology, morphology, vocabulary and syntax of Greek and Latin.

(c) Selected texts to illustrate the history of Greek and Latin.

Students will attend (a), (b) and (c).

Degree Examination:—

Ten papers, each of three hours' duration, are set:—

1. Latin prose composition.
2. Latin unseen translation.
3. Commentary on Latin prescribed books.
4. Greek prose composition.
5. Greek unseen translation.
6. Commentary on Greek prescribed books.
7. Translation from Greek and Latin prescribed books.
8. Greek and Latin Literature and Ancient Philosophy.
9. Ancient History (prescribed periods) and Antiquities.
10. Special Subject, *i.e.* one of:—Ancient History, Ancient Philosophy, Classical Archæology, Classical Philology.

An optional paper on verse composition in Greek or Latin or both languages is also set. In papers 8 and 9 candidates are given an opportunity to answer questions on subjects included in the introductory courses in Ancient Philosophy and Classical Art and Archæology respectively.

Prescribed books:—

Latin

1960:—Virgil; Plautus, *Mostellaria* *; Terence, *Andria*; Cicero, *De Officiis* iii *, and *De Domo Sua*; Lucretius i; Lucretius v *; Tibullus (selections); Seneca, *Apocolocyntosis*; Petronius, *Cena Trimalchionis* *; Statius, *Silvæ* *; Tacitus, *Histories* i; Tacitus, *Histories* ii *.

1961:—Horace *; Plautus, *Menæchmi*; Lucretius i; Lucretius iii *; Cicero, *Pro Cælio*; Cicero, *Tusculan Disputations* v *; Catullus *; Sallust, *Jugurtha*; Seneca, *Epistulæ Morales* (selections ed. Summers) *; Martial (selections) *; Quintilian x; Tacitus, *Histories* iv.

Lectures will be given on the books marked with an asterisk *.

Faculty of Arts

Greek

1960:—(a) For detailed study:—Æschylus, *Agamemnon*; Pindar, *Pythia*; Sophocles, *Ajax*; Herodotus vii (175 to end), viii; Plato, *Phædrus*; Aristotle, *Poetics*. Lectures will be given on the majority of these books.

(b) For translation and comment on subject-matter:—Homer, *Iliad* xiii-xxiv; Hesiod, *Works and Days*; Tyrtaeus, Solon; Æschylus, *Supplikes*; Euripides, *Hippolytus*, *Bacchæ*; Aristophanes, *Wasps*, *Frogs*; Plato, *Republic*, ii, iii, iv, x; Isocrates, *Panegyricus*; Demosthenes xxxvi, liii, lv; Theocritus i, ii, vii, xv.

1961:—(a) For detailed study:—Æschylus, *Agamemnon*; Pindar, *Pythians*; Aristophanes, *Frogs*; Thucydides ii; Plato, *Gorgias*; Aristotle, *Poetics*. Lectures will be given on the majority of these books.

(b) For translation and comment on subject-matter:—Homer, *Iliad* i-xii; Hesiod, *Works and Days*; Tyrtaeus, Solon; Æschylus, *Seven Against Thebes*; Sophocles, *Trachinæ*; Euripides, *Bacchæ*; Aristophanes, *Wasps*; Plato, *Republic* ii, iii, iv, x; Isocrates, *Panegyricus*; Demosthenes xxxvi, liii, lv; Theocritus i, ii, vii, xv.

Ancient History (paper 9)

Greek History, 478-421 B.C. (lecture course, autumn 1959):—Thucydides, i, 20-146; Aristotle, *Constitution of Athens*, 23-28; pseudo-Xenophon, *Constitution of Athens*.

Roman History, 62 B.C.-A.D. 14 (lecture course, autumn 1960):—selections from Cicero, *Select Letters* (How); Augustus, *Res Gestæ* (Latin version).

Ancient History (special subject)

Roman History, 133-63 B.C. (lecture course, spring 1960):—Greenidge and Clay, *Sources for Roman History*; Sallust, *Catiline*; selections from Bruns, *Fontes Juris Romani*.

Greek History, 421-386 B.C. (lecture course, spring 1961):—Selections from Thucydides v-viii; selections from Xenophon, *Hellenica* i-v; Aristotle, *Constitution of Athens*, 28-41; selections from Tod, *Greek Historical Inscriptions*.

Ancient Philosophy (p. 371)

Either (A) Greek Philosophy from Thales to Plato, with special study of:—Plato, *Phædo* and *Republic* v to vii.

Or (B) Aristotle and later schools down to first century B.C., with special study of:—Aristotle, *Nicomachean Ethics* viii and ix; Epicurus, *Letter to Menoeceus* and *Κίριαι Δόξαι*; Lucretius i and ii; Cicero, *de Finibus* iii and iv; Cicero, *Lucullus*, sections 13-62.

Classical Archaeology

Recommended for study:—D. S. Robertson, *Greek and Roman Architecture*; A. W. Lawrence, *Classical Sculpture*; Pfuhl, *Masterpieces of Greek Drawing and Painting*; R. G. Collingwood, *The Archaeology of Roman Britain*.

A general knowledge of the material culture of Greece and Rome is expected. For advice on further reading students should consult the lecturer.

Classical Philology

Recommended for study:—Jespersen, *Language*; Meillet et Vendryes, *Traité de grammaire comparée des langues classiques*; Meillet, *Introduction à l'étude comparative des langues indo-européennes*; Buck, *Comparative Grammar of Greek and Latin*; Palmer, *The Latin Language*; Ernout, *Recueil de textes latins archaïques*; Buck, *The Greek Dialects*.

Sellar and Goodhart Classical Library (Old College)

This library and reading-room, founded in memory of Professors Sellar and Goodhart, is for the use of students reading, or intending to read, for Honours in Classics. The subscription, covering the four years of the Honours Course, is 3s. 6d.

RHETORIC AND ENGLISH LITERATURE

PROFESSOR BUTT; Dr. A. M. CLARK, Reader; Miss MAYNARD, Mr. RUTHERFORD, M. KINKEAD-WEEKES and Mr. MACQUEEN, Lecturers

First Ordinary Course

Class hours:—Lectures on Mon., Tues., Thurs. and Fri. at 12, with tests, etc., on Wed. as will be announced, and tutorials at such other hours as may be arranged. The subject of the lectures on Mon., Tues. and Thurs., and also on Fri. in the summer term, will be the history of English literature. The lectures on Friday in autumn and spring will be on the principles of rhetoric and criticism. Those members of the class who are prospective Honours English students require a pass in Latin on the higher standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency) before they enter Honours courses in their third session; and they are strongly advised to secure such a pass before they begin their first session. It is also desirable that they should have a reading knowledge of at least one modern foreign language: for those specialising in Literature or Mediæval Studies, preferably French, and, in Language, preferably German. Those who are not prospective Honours students but who propose to attend the Second Ordinary course require a pass in Latin on the lower standard and are advised to secure it before they begin their first session.

Prospective Honours students must obtain a first- or second-class merit certificate in either the First or Second Ordinary course, or in the Ordinary Class of English Language, in order to qualify for admission to Honours courses in their third session. Others who wish to enter the Second Ordinary course must pass the First Ordinary degree examination at their first attempt or obtain a first- or second-class merit certificate in the First Ordinary course.

Books recommended:—Legouis, *A Short History of English Literature*; Ker, *English Literature—Mediæval*; Mair, *English Literature—Modern*; Treble and Vallins, *An A B C of English Usage*; Pearsall Smith, *The English Language*; Bradley, *The Making of English*; *The Concise Oxford Dictionary of English Literature*; *Annals of English Literature, 1475-1925*; *The Concise Oxford Dictionary*.

Class examination dates, see p. 472.

DEGREE EXAMINATIONS

The general work of the course; the history of English literature; rhetoric; and the texts prescribed below.

A detailed knowledge of the following books will be required in class and degree examinations: Spenser, *The Faerie Queene*, bk. vi, cantos 9 and 10 (ed. Warren); Shakespeare, *Antony and Cleopatra*; Donne, *Satire iii* (Clarendon English Series); Milton, *Samson Agonistes*; Dryden, *Ode on St. Cecilia's Day*; Pope, *Epistle to Arbuthnot*; Burns, *Epistles to William Simpson and James Smith*; Wordsworth, *Tintern Abbey and Ode to Duty*; Keats, *Ode to a Grecian Urn* and *Ode to a Nightingale*; Browning, *Fra Lippo Lippi*.

A knowledge of the following books will also be required, but a minute knowledge of the texts will not be expected:—Chaucer, *The Pardoner's Tale*; Spenser, *The Faerie Queene*, bk. vi, introduction and cantos 2 and 4; Shakespeare, *Much Ado About Nothing*; Coleridge, *This Lime-Tree Bower my Prison and Dejection*; Byron, *The Vision of Judgment*; Shelley, *Letter to Maria Gisborne*; Keats, *Ode to Melancholy*; Tennyson, *Ulysses* and *The Lotus-Eaters*; Browning, *Christmas Eve*; Arnold, *The Scholar Gipsy* and *Dover Beach*; T. S. Eliot, *The Waste Land*; Scott, *Chronicles of the Canongate*, ch. i-iv, and *The Two Drovers* (World's Classics); Galt, *Annals of the Parish*; Jane Austen, *Persuasion*; T. L. Peacock, *Crotchet Castle*; Hardy, *The Return of the Native*; Shaw, *Man and Superman*; Mackie, *A Book of Scottish Verse* (World's Classics), pp. 18-28, 57-73, 103-117, 155-172, 200-215.

Faculty of Arts

Second Ordinary Course

Class hours:—Mon., Tues. and Thurs. at 12, with tutorials at hours to be arranged. Entrance qualifications for this class:—A pass in Latin, on the higher standard for prospective Honours students, on the lower standard for others, in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency); and a pass at the first attempt in the First Ordinary degree examination, or a first- or second-class merit certificate in the First Ordinary course. The standard of class and degree examinations in the Second Ordinary course is higher than in the First. The subjects for 1959-60 will be:—(1) Nineteenth century Prose (autumn); (2) Poetry from Blake to Rossetti (spring and summer); and (3) The theory of Literary Criticism (three terms). For the standard to be reached in this course by prospective Honours students see under First Ordinary Course above.

Books recommended:—*The Cambridge History of English Literature*, vols. xi and xii; Herford, *The Age of Wordsworth*; Walker, *The Age of Tennyson*; Grierson, *Lyrical Poetry from Blake to Hardy*; Arnold, *Essays in Criticism* (second series); Hazlitt, *The Spirit of the Age*; Raleigh, *The English Novel and Wordsworth*; J. C. Smith, *A Study of Wordsworth*; Symons, *The Romantic Movement in English Poetry*; Paul, *Matthew Arnold*; Chesterton, *Browning and Charles Dickens*; Nichol, *Byron and Carlyle*; Traill, *Coleridge*; Birrell, *Hazlitt*; Colvin, *Keats*; Ainger, *Lamb*; Symonds, *Shelley*; Lyall, *Tennyson*; Myers, *Wordsworth*; Courthope, *A History of English Poetry*, vol. vi; Elton, *A Survey of English Literature, 1780-1830*, vols. i and ii; Craik, *English Prose Selections*, vols. iv and v; Ward, *English Poets*, vols. iv and v; Coleridge, *Biographia Literaria*, chaps. 14, 17-20 and 22; Saintsbury, *Nineteenth-century Literature, Essays in English Literature, 1780-1860*, *A Short History of English Literature and A History of English Criticism*; Legouis, *A Short History of English Literature*; and Cowl, *Theory of Poetry in England*.

Class examination dates. see p. 472.

DEGREE EXAMINATIONS

The examinations will cover the general work on the course, both in literary history and in critical theory. The students must supplement the lectures by reading for themselves in both of these fields.

A thorough knowledge of the following texts is required:—Prose—Lamb, *Essays of Elia* (first series); Hazlitt, *Sketches and Essays*; Scott, *Ivanhoe*; Carlyle, *Past and Present*; Newman, *On the Scope and Nature of University Education*; Arnold, *Culture and Anarchy* (ed. Dover Wilson). Poetry—Crabbe, *The Village*; Blake, *Songs of Innocence and Experience*; Wordsworth, *The Prelude*, bks. viii-xi, *Character of the Happy Warrior*, *Immortality Ode*, and *Laodamia*; Coleridge, *Destruction of the Bastille*, *Ode on the Departing Year*, *France*, *Dejection*, *Hymn before Sunrise*, and *To a Gentleman*; Byron, *Childe Harold*, canto 3; Shelley, *Alastor*, and *Adonais*; Keats, *Sleep and Poetry*, *Hyperion*, and *Lamia*; Tennyson, *The Lady of Shalott*, *Oenone*, *Morte d'Arthur*, and *Ode on the Duke of Wellington*; Browning, *My Last Duchess*, *Pictor Ignotus*, *The Bishop orders his Tomb*, *Up at a Villa*, *A Toccato of Galuppi*, and *Caliban upon Setebos*; Arnold, *Sohrab and Rustum* and *Thyrsis*; Rossetti, *A Last Confession*, *Jenny and The King's Tragedy*.

The following also must be read, a sound general (but not minute textual) knowledge of them being required in examination:—Wordsworth, *The Prelude*, bks. i-vii and xii, *Tintern Abbey*, *Michael*, *Ruth and Peele Castle*; Coleridge, *Fears in Solitude* and *Frost at Midnight*; Byron, *The Vision of Judgment*; Shelley, *Hymn to Intellectual Beauty* and *Mont Blanc*; Keats, *Isabella* and *The Eve of St. Agnes*; Thackeray, *Henry Esmond*; Dickens, *A Tale of Two Cities*; George Eliot, *Romola*.

Courses of Instruction (Lang. and Lit.)

Honours Courses

For the special entrance qualifications in Latin for these courses and for the standard to be reached in the First and the Second Ordinary courses in order to qualify for admission to the Honours courses, see under First Ordinary course above and Honours Curriculum and Examinations in English.

The following courses will be given in session 1959-60:—

1. Literature from 1360 to 1560.
2. Literature from 1700 to 1925.
3. Critical Theory and the Classical Background.

Class examination dates, see p. 472.

English as a Foreign Language

MR. PRUDHOE and MR. SINCLAIR, Lecturers

This course is open to two types of student: (a) Graduation students for the degree of B.Com. or M.A. who wish to take English as a foreign language and whose native tongue is other than English, (b) Non-graduation students of University standing.

The class meets on Mon., Tues., Thurs. and Fri. at 4, with tutorials at hours to be arranged. Two lectures a week will be devoted to English Language and Phonetics, and two to Literature.

Prescribed texts:—(1) Milton, *Paradise Lost* (Bk. i, lines 1-124); Dryden, *Absalom and Achitophel* (lines 543-697); Pope, *The Rape of the Lock*; Wordsworth, *Tintern Abbey and Intimations of Immortality*; Keats, *The Eve of St. Agnes*; Byron, *The Vision of Judgment*; Tennyson, *Ulysses*; Browning, *Fra Lippo Lippi and Bishop Blougram's Apology* (lines 599-697); T. S. Eliot, *The Waste Land*. (2) Shakespeare, *A Midsummer Night's Dream*; Sheridan, *The School for Scandal*; Shaw, *The Man of Destiny*. (3) Swift, *Gulliver's Travels* (Bks. I and IV); Jane Austen, *Pride and Prejudice*; Scott, *The Two Drovers*; George Eliot, *Silas Marner*.

Class examination dates as announced in class.

ENGLISH LANGUAGE

PROFESSOR MCINTOSH; Dr. SCHRAM, Senior Lecturer; Dr. HALLIDAY and * * *, Lecturers; Mr. PÁLSSON, Lecturer in Icelandic

Ordinary Course

Mon., Tues., Thurs. and Fri. at 9, with a weekly tutorial at an hour to be arranged. This course is of two types:—A, for students not intending to proceed to Intermediate Honours in English Language; B, for those so intending.

- A. The work of the class will comprise:—(1) An elementary study of Old English, Middle English and Middle Scots, and the reading of texts selected from the following:—Sweet, *Anglo-Saxon Primer* (9th ed., revised by Davis); Sweet, *Anglo-Saxon Reader* (10th or subsequent ed.); Dickins and Wilson, *Early Middle English Texts*, and Sisam, *Fourteenth Century Verse and Prose*. (2) An outline of Old and Middle English and Middle Scots literature. (3) The history of the language from the beginnings to the present day. (4) A study of some general linguistic problems with special reference to the language of the modern period.
- B. The class will be concerned with most of the topics listed above under A, but a greater proportion of time will be devoted to Old English language and literature.

The two courses will not divide until the beginning of the spring term. Transference from one to the other after that date will not be allowed without the permission of the Head of the Department. A pass or merit certificate

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in Course A will be accepted as one of the qualifications for entry into Honours English only with the concurrence of the Professors of English Language and English Literature.

Books recommended for general reading:—Lloyd James, *Our Spoken Language*; Ward, *The Phonetics of English*; Baugh, *History of the English Language*; Wyld, *Short History of English*; Bradley, *The Making of English*; L. P. Smith, *The English Language*; Jespersen, *Growth and Structure of the English Language* and *Essentials of English Grammar*; Wrenn, *The English Language*; Potter, *Our Language*; Mossé, *Esquisse d'une histoire de la langue anglaise*; Sheard, *The Words We Use*; Quirk and Wrenn, *Old English Grammar*; Wardale, *Introduction to Middle English*; Ker, *English Literature—Medieval*; *Cambridge History of English Literature*, vols. i and ii; Baugh (ed.), *A Literary History of England*, Book I; Wilson, *Early Middle English Literature*; Hodgkin, *History of the Anglo-Saxons*; Renwick and Orton, *The Beginnings of English Literature to Skelton*; McKnight, *Modern English in the Making*; Sweet, *The History of Language*; Bloomfield, *Language*; Sapir, *Language*; Sturtevant, *Introduction to Linguistic Science*. Students taking course B are also recommended to consult:—Chadwick, *The Heroic Age*; Kennedy, *The Earliest English Poetry*; Wardale, *Chapters on Old English Literature*.

Class examination dates, see p. 473.

DEGREE EXAMINATIONS

There will be two papers covering Old and Middle English, the history of English and Scots, general linguistic problems and modern English. The papers will contain alternative sections for Courses A and B candidates reflecting the different emphasis of the two courses.

Intermediate Honours Course

Tues., Thurs. and Fri. at 11, with an extra hour on Monday at 11 for candidates who intend to specialise in Language in the Final Honours examination. For the place of this course in the curriculum for prospective Honours students, see Honours Curriculum and Examinations in English. The work of this Honours class will comprise:—The continued study of Old and Middle English and Middle Scots grammar; the reading of more advanced, mainly poetical and dialectal, texts, including works prescribed for the examination for Honours; the history of the English Language continued; some lectures on Old and Middle English and Middle Scots Literature.

Books recommended for general reading:—Brook, *Notes on Some English Sound Changes*; Huchon, *Histoire de la langue anglaise*; Mossé, *Manuel de l'anglais du moyen âge*; Moore, *Historical Outlines of English Sounds and Inflections*; Wyld, *A History of Modern Colloquial English*; Ker, *The Dark Ages and Epic and Romance*; Phillpotts, *Edda and Saga*; Chadwick, *The Growth of Literature*, vol. i; R. W. Chambers, *Beowulf: An Introduction*; Lawrence, *Beowulf and Epic Tradition*; C. W. Kennedy, *The Old English Elegies and Early English Christian Poetry*; Stenton, *Anglo-Saxon England*; Schofield, *English Literature from the Norman Conquest to Chaucer*; Kane, *Middle English Literature*; Owst, *Literature and Pulpit in Medieval England*; E. K. Chambers, *English Literature at the Close of the Middle Ages*; T. F. Henderson, *Scottish Vernacular Literature*; H. O. Taylor, *The Medieval Mind*; Heusinkveld and Bashe, *A Bibliographical Guide to Old English*; J. E. Wells, *A Manual of the Writings in Middle English*.

Candidates proposing to specialise in Language in the Final Honours Examination should also consult A. Campbell, *Old English Grammar*; *Three Northumbrian Poems*, ed. A. H. Smith; Jordan, *Mittelenglische Grammatik*.

Class examination date, see p. 473.

Courses of Instruction (Lang. and Lit.)

INTERMEDIATE HONOURS EXAMINATIONS

There will be two papers:—1. Old English. 2. Middle English and Middle Scots. Each paper will comprise:—Passages from prescribed texts for translation and explanation; unseen passages for translation; and questions on the history of the language during these periods, on metre, and on literary history.

Prescribed books for 1960:—O.E., *Beowulf* (ed. C. L. Wrenn), lines 1251-2199; Selections from verse passages in Sweet, *Anglo-Saxon Reader*; M.E., Selections from Dickins and Wilson, *Early Middle English Texts*; and from Sisam, *Fourteenth Century Verse and Prose*. Middle Scots, Selections from alliterative, comic, and burlesque poems (texts will be provided).

Final Honours Courses

(a) Type I. The course for preparation for Paper 8 will be on Thursdays at 12 noon.

(b) Type II. Entrance qualification for this class:—A reading knowledge of German. There will be three lectures a week at times to be arranged in autumn and spring. The course is intended for Honours students who wish to specialise in English and Germanic Philology in the Final Honours examination.

Old Norse

Dr. SCHRAM, Senior Lecturer; Mr. PÁLSSON, Lecturer in Icelandic

Class hours:—12 on Fri. (or at an hour to be arranged) in autumn and spring. It is intended to supplement the Intermediate Honours course in English Language—to give students who have already worked for a year at Old and Middle English some knowledge of a second Germanic language, which is, moreover, one of the main elements which have gone to the making of English. It must be taken by students who offer English and Germanic Philology in the Final Honours examination in English. The texts read will be for the most part such as illustrate or supplement the remains of Old English heroic poetry, or have in one way or another set their mark on modern English literature. This course does not profess to give more than the elements of Old Norse, but the lecturer will be glad to advise any student who wishes to pursue the subject further.

Books recommended:—Sweet, *Icelandic Primer*; Gordon, *Introduction to Old Norse*; Heusler, *Altisländisches Elementarbuch*; Holthausen, *Altisländisches Lesebuch*; Stefán Einarsson, *Icelandic*; S. Nordal, *Íslenzk lestrarbók*; Zoëga, *Concise Dictionary of Old Icelandic*; Vigfússon, *Prolegomena to Sturlunga Saga*; Faraday, *Edda*, i and ii; Craigie, *Icelandic Sagas*; Ker, *Epic and Romance*; Mawer, *The Vikings*; Collingwood, *Scandinavian Britain*; Gjerset, *A History of Iceland*; Phillpotts, *Edda and Saga*; Halvdan Koht, *The Old Norse Sagas*; Turville-Petre, *Origins of Icelandic Literature*.

ICELANDIC

Mr. PÁLSSON, Lecturer

Elementary Class

Four hours a week. Text-books: Gordon, *Introduction to Old Norse*; Jónsson, *A Primer of Modern Icelandic*; *Gunnlaugs saga ormsstungu*.

Ordinary Course

Four hours a week. Entrance qualification: a pass in Icelandic in the examination of the Elementary Class, or some equivalent evidence of proficiency. The work of the class consists of: (1) translation and study of prescribed texts;

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(2) translation into modern Icelandic; (3) study of Icelandic grammar; (4) the history of Icelandic literature in broad outlines.

Prescribed books:—Noreen, *Altisländische und altnorwegische Grammatik*; Jónsson, *Forníslensk lestrarbók* (parts); Nordal, *Sýnisbók íslenzkra bókmennta til miðrar átjándu aldar* (parts) and *Íslensk lestrarbók 1750-1930* (parts); Einarsson, *Icelandic*.

Books recommended:—Hollander, *The Poetic Edda*; Chadwick, *The Growth of Literature*, i; Schneider, *Die Germanische Heldensage*; Hollander, *The Scalds*; Liestøl, *The Origins of the Icelandic Family Sagas*; Nordal, *Íslensk menning*; Schlauch, *Romance in Iceland*; Beck, *History of Icelandic Poets, 1800-1940*; Einarsson, *History of Icelandic Prose Writers 1800-1900*; Andrésson, *Íslenzkar nútíma bókmenntir*.

HONOURS CURRICULUM AND EXAMINATIONS IN ENGLISH

Qualifications for Entry

The following are the qualifications for entry:—

(i) A pass in Latin on the higher standard in the Leaving Certificate, or the Preliminary examination, or some equivalent evidence of proficiency.

(ii) A pass in the First and Second Ordinary classes in English Literature and in Course B of the Ordinary class in English Language and a merit certificate in at least one of these classes; and a pass in the Intermediate Honours class in English Language. (A pass or merit certificate in Course A of the Ordinary class in English Language will be accepted as one of the qualifications for entry into Honours English only with the concurrence of the Professors of English Language and English Literature.)

(iii) A pass in the Ordinary class of British History, and a pass in at least one other Ordinary class, preferably Latin or Logic and Metaphysics.

(iv) A reading knowledge of at least one modern foreign language is expected; for Types I and III (see below), preferably French, for Type II, preferably German.

Candidates for Honours must attend within their Honours Group (English Language and Literature) at least four full courses as defined in the Regulations for the Degree of Master of Arts, Section XI (7). They may elect to specialise in Literature (Type I) or in Language (Type II) or in Mediæval Studies (Type III).

Final Honours Examination

The following papers will be set in the Final Honours examination:—

1. An essay paper.
2. Critical Theory, and the relation of English to classical Literature.
3. Shakespeare.
4. Literature from 1360 to 1560.
5. Literature from 1560 to 1700.
6. Literature from 1700 to 1815.
7. Literature from 1815 to 1925.
8. English Language—literary and colloquial usage from 1350 to the present day.
9. The Relation of English to the other Germanic languages, with special reference to either (a) Old Norse, or (b) Gothic.
10. The History of the English Language to 1150.
11. The History of the English Language, 1100 to 1450.
12. The History of the English Language, 1400 to the present day.¹

¹ This paper will include certain alternative sections requiring special study in e.g. the Phonetics of English, Elizabethan English, English Syntax.

Courses of Instruction (Lang. and Lit.)

13. Old English Literature.

14. Middle English Literature.

15. One of the following (related) Literatures: Mediæval Latin; Mediæval Welsh; Mediæval French; Italian; Spanish; Old Norse; Mediæval German Literature.

Candidates in Type I must take papers 1 to 8, except that one of the alternative papers 15 may be substituted for one of papers 4 to 7.

Candidates in Type II must take paper 1, and two of papers 2 to 7, paper 8, and papers 9 to 12.

Candidates in Type III must take papers 1, 3, 4 and one other of papers 2 to 7, one of papers 10 and 11, papers 13 and 14, and one of the alternative papers 15.

English Library (39 George Square)

This library and reading-room may be used from 9 a.m. to 6 p.m. by students who are reading for Honours in English. There is a deposit of 10s., which will be returned when the student leaves the Honours class.

Sir Walter Scott Lectures

The next series of lectures under the Sir Walter Scott Fund will be delivered on dates to be announced later.

FRENCH AND ROMANCE PHILOLOGY

French Literature: PROFESSOR GREEN

French Language and Romance Linguistics: PROFESSOR McMILLAN
Miss LEGGE, Reader; Mr. STEELE, Dr. CLARK, Dr. BARNWELL and * * *,
Lecturers, and Dr. HOLDEN, Lecturer in Romance Philology

First Ordinary Courses

The First Ordinary courses are of three types:—A, for students not seeking Honours in French; B, for students seeking Honours in French combined with Honours in another Language; C, for students seeking Honours in French Language and Literature alone. The subjects of study are chosen in every case from the following list:—I. Modern Literature; II. Mediæval Literature; III. Old French texts; IV. Phonetics, Diction, Versification; V. History (Mediæval France and early development of French); VI. Composition; VII. Translation. Transference from A to B or C, and from B to C may be allowed, after consultation with the Professors, but will normally not be possible after the beginning of the spring term; provided always that a student who has taken Course A may, if otherwise qualified, choose to take in a succeeding year either Course B or C as a preparation for an Honours degree.

Course A (for students not seeking Honours in French). Entrance qualification for this class:—A pass in French on the higher standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Class hours:—Mon., Tues., Thurs. and Fri. at 3, with additional meetings for tutorial work. Subjects of study:—Nos. I, VI and VII from the above list.

Prescribed books:—

1. F. C. Green, *The Ancien Régime* (Edin. Univ. Press).

2. Molière, *Le Misanthrope* (Classiques Larousse); Racine, *Athalie* (Classiques Larousse); Prévost, *Manon Lescaut* (Camb. Univ. Press); Voltaire, *Zaïre* (Classiques Larousse); Beaumarchais, *Le Barbier de Séville* (Classiques Larousse).

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3. Lamartine, *Méditations*; Hugo, *Les Voix intérieures*, *Les Contemplations*; Vigny, *Poésies choisies*; Gautier, *Pages choisies*; Baudelaire, *Pages choisies* (all Classiques Larousse).

4. W. F. H. Whitmarsh, *Cours Supérieur* (Longmans).

5. For tutorial work:—*Anthology of the Contemporary French Novel* (Dent).

Class examination: Prose and Essay; Dictation and Translation; Literature. For dates, see p. 473.

DEGREE EXAMINATIONS

I. Prose Composition and Essay; II. Translation from French and oral test (dictation); III. Literature, based on prescribed texts and on class lectures.

Course B (for students seeking Honours in French combined with Honours in another language). Entrance qualifications for this class:—A pass in French on the higher standard, and in Latin on at least the lower standard, in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Class hours:—Mon., Tues., Thurs. and Fri. at 3, with further meetings for tutorial work. Subjects of study:—Nos. I to VII from the above list.

Prescribed books:—1, 2, 4 and 5 as for Course A above.

6. *Le Lai de l'Ombre* (Edin. Univ. Press); E. Faral, *Petite Grammaire de l'ancien français* (Hachette); P. Castex and P. Surer, *Moyen Age* (Hachette).

7. Armstrong, *The Phonetics of French* (Bell); Grammont, *Petit Traité de versification française* (Colin).

8. W. von Wartburg, *Evolution et structure de la langue française* (Heffer, 5th ed.), ch. i-iv; Ch. Vossler, *Langue et culture de la France* (Payot), ch. i-vi.

Class examination: As for Course A above, and B and C Language. For dates, see p. 473.

DEGREE EXAMINATIONS

As for Course A, above.

The work on subject V will be tested at the end of the spring term.

Course C (for students seeking Honours in French Language and Literature alone). Mon., Tues., Thurs. and Fri. at 3, with further meetings for tutorial work. Preliminary requirements:—In French, as for Course B above. Students who do not intend to offer Latin as one of the necessary two subjects outside their Honours Group must *either* have obtained a pass on the higher level in Latin in the Leaving Certificate or the Preliminary examination, *or* have attained an equivalent standard. Special requirement:—Candidates must take Phonetics as the outside subject to be studied in their first year. Those who do not intend to select either Italian or Spanish as their second outside subject, and particularly those whose bent is towards Philology, are advised to acquire a knowledge of at least one of these languages as early in their course as possible. Subjects of Study:—Nos. I to VII from the above list.

Prescribed books:—1-8 for Course B above, and: 9. *Le Charroi de Nîmes* (Classiques français du moyen âge); J. Frappier, *Les Chansons de geste du cycle de Guillaume d'Orange* (S.E.E.S.); Foulet, *Petite syntaxe de l'ancien français* (Classiques français du moyen âge).

Class examination as for Course B above, and Special Paper in Mediæval Language and Literature, held in March, and at the end of the third term at a date to be arranged. For dates, see p. 473.

DEGREE EXAMINATIONS

As for Course B above.

Courses of Instruction (Lang. and Lit.)

Second Ordinary Course

Entrance qualifications for this class:—A merit certificate in one of the First Ordinary courses or other adequate proof of fitness for admission to the class. Class hours:—Mon., Tues., Thurs. and Fri. at 3, with additional meetings for tutorial work. Subjects of study:—French Literature and French Institutions; prose composition; translation from French.

Prescribed books:—

1. B. Constant, *Adolphe* (Manchester Univ. Press); Stendhal, *Le Rouge et le Noir* (Nelson); Balzac, *Le Père Goriot* (Nelson); Flaubert, *L'Education sentimentale* (Nelson).

2. Lamartine, *Les Harmonies*; Hugo, *Les Contemplations*; Vigny, *Poésies choisies*; Nerval, *Pages choisies*; Baudelaire, *Pages choisies*, Verlaine et les poètes symbolistes (all Classiques Larousse).

3. Kastner and Marks, *French Composition III* (Advanced Stage).

4. *French Literary Passages* (Dent).

5. For tutorial work:—J. Romain, *Knock*; Saint-Exupéry, *Vol de Nuit* (both Livres de Poche).

Class examination: Prose and Essay; Translation; Literature. For dates, see p. 473.

DEGREE EXAMINATIONS

I. Prose Composition and Essay; II. Translation from French; III. Literature, based on prescribed texts and on class lectures; there will also be an oral test.

Intermediate Honours

The Intermediate Honours courses are of two types:—A, for students seeking Honours in French combined with Honours in another subject; B, for students seeking Honours in French Language and Literature alone. In each case the subjects of study are chosen from the following list:—I. Sixteenth-century Literature; II. Seventeenth-century Literature; III. Seventeenth-century Thought; IV. History of the French Language; V. Historical Grammar; VI. Old French texts; VII. Sixteenth-century texts; VIII. Prose Composition; IX. Translation.

Course A (for students seeking Honours in French combined with Honours in another language). Entrance qualifications for this class:—A merit certificate in the First Ordinary Course B or C, or, in special circumstances, the permission of the Professors. Class hours:—Mon., Tues., Thurs. and Fri. at 3, with additional meetings for tutorial work. Subjects of study:—Nos. I, II, III, IV, VI, VII, VIII, IX.

Prescribed books:—

1. *La Chanson de Roland* (ed. Bédier, Piazza); Villon, *Œuvres* (ed. Longnon, Classiques français du moyen âge).

2. Rabelais, *Gargantua and Tiers Livre* (in *Œuvres*, Classiques Garnier); Du Bellay, *Les Antiquités et les Regrets* (Droz); Ronsard, *Poèmes* (ed. Barbier, Blackwell); Montaigne, *Selected Essays* (ed. Tilley-Boase, new ed., Manchester Univ. Press).

3. Corneille, *Polyeucte*; Molière, *Le Tartuffe* (ed. Ashton, Blackwell); Racine, *Phèdre* (Manchester Univ. Press).

4. Descartes, *Discours de la méthode* (ed. Gilson, Librairie Philosophique Vrin); Pascal, *Les Pensées* (Nelson).

5. W. von Wartburg, *Evolution et structure de la langue française* (Heffer, 5th ed.); Ch. Vossler, *Langue et culture de la France* (Payot).

Faculty of Arts

6. Kastner and Marks, *French Composition III (Advanced Stage)*.

7. *French Literary Passages* (Dent).

8. For tutorial work:—Duclos, *Considérations sur les mœurs* (Camb. Univ. Press); J. Supervielle, *Contes et Poèmes* (Edin. Univ. Press).

Class examination: As for Second Ordinary above, and History of the Language. For dates, see p. 473.

DEGREE EXAMINATIONS

I. Prose Composition and Essay; II. Translation from French; III. Literature and Thought; IV. History of the Language; there will also be an oral test.

Course B (for students seeking Honours in French Language and Literature alone). Mon., Tues., Thurs. and Fri. at 3, with additional periods for tutorial work. Preliminary requirements:—A merit certificate in First Ordinary Course or, in special circumstances, the permission of the Professors; Latin as stated above in the preliminary requirements for Ordinary Course C; and attendance at the Ordinary Course in Phonetics as stated above. Candidates who do not select either Italian or Spanish as the second subject outside their Honours Group, and particularly those whose bent is towards Philology, are advised to acquire a knowledge of at least one of these languages. Subjects of study:—Nos. I to IX inclusive.

Prescribed books:—1-8 as for Course A above, and:

9. R. Bossuat, *La Poésie lyrique en France* (Larousse).

10. P. Bec, *Petite Anthologie de la lyrique occitane du moyen âge* (Aubanel).

11. *Fabliaux* (ed. Johnston and Owen, Blackwell).

12. Selected passages from Chrétien de Troyes, *Le Chevalier de la Charrette* (ed. Roques, *Classiques français du moyen âge*).

For reference:—J. Evans, *Life in medieval France* (Phaidon, revised ed.); K. Nyrop, *Grammaire historique*, vol. ii; André Berry, *Florilège des Troubadours*; Martin de Riquer, *La Lirica de los Trovadores*; E. Hoepffner, *Les Troubadours* (Colin); either J. Anglade, *Grammaire de l'ancien provençal* (Klincksieck), or O. Schultz-Gora, *Altprovenzalisches Elementarbuch* (Winter, Heidelberg).

Class examination: As for Course A above, and: B Special. For dates, see p. 473.

DEGREE EXAMINATIONS

As for Course A above, and: V. Special Paper (Mediæval French and Provençal Language and Literature).

Junior Honours

The penultimate (normally the third) year of the curriculum is spent abroad at a French-speaking university, lycée or other approved institution.

(An alternative scheme for Honours in French as the primary language with Latin as the secondary language is allowed in special cases. Instead of the continuous year spent abroad, the summer vacations of the second, third and fourth years are spent in France. The Intermediate Honours examination in Latin is taken at the end of the third (or penultimate) year, and the Honours examination in French in the summer term of the fourth year; but the degree is not conferred till the October following the summer vacation of the fourth year.)

Preliminary requirements:—Candidates must have passed the Intermediate Honours examination in French (either A or B), the Intermediate Honours examination in the second Honours subject when not seeking Honours in French Language and Literature alone, and have satisfied all requirements in outside subjects

Courses of Instruction (Lang. and Lit.)

Subjects of study:—In addition to attendance upon courses or classes at the approved foreign institution, candidates must submit compositions and essays as prescribed.

They must further submit at the end of the autumn and spring terms a report upon the courses or classes attended, and in the autumn of their final year a dissertation in French on some topic of local interest connected with their stay abroad. Account will be taken of the dissertation in the assessment of candidates at the end of their last year of study.

Final Honours

Course A (for students seeking Honours in French combined with Honours in another language), Mon., Tues., Thurs. and Fri., with tutorial work as arranged.

Subjects of study:—History of the French Language; Mediæval Language and Literature; Eighteenth-century Literature; Nineteenth-century Literature; Nineteenth-century French Civilisation; Special Subject (Romance Linguistics, or Anglo-Norman Studies, or Literature, at the choice of the candidate); composition; essays; translation.

Candidates whose second language is German, Italian, Russian or Spanish and who contemplate proceeding to full Honours in that language after one year's further study may be required to attend Honours courses in their second language concurrently with their final Honours course in French; candidates whose second language is German may be required to substitute for their special subject in French an approved Honours course in German and to take the corresponding paper in the German Honours examination.

Class examination: Translation; Prose; Essay; Literature. For dates, see p. 473.

Prescribed books:—

I. LANGUAGE.—1. J. OIT, *On Homonymics, and Notes on Homonymics in Words and Sounds in French and English* (Blackwell). 2. Berthon and Onions, *Advanced French Composition* (Macmillan). 3. Leigh and Steele, *Contemporary French Translation Passages* (Nelson).

II. MEDIÆVAL LANGUAGE AND LITERATURE.—Prescribed texts:—1. *La Chanson de Roland* (ed. Bédier, Piazza). 2. Bérout, *Le Roman de Tristan* (ed. Muret, Classiques français du moyen âge, or Ewert, Blackwell).

III. LITERATURE.—

(i) *Eighteenth-century Literature.*

Prescribed texts:—Beaumarchais, *Le Barbier de Séville* (Classiques Larousse); Voltaire, *Méropé* (Nouveaux Classiques Hatier); Zadiq, *Candide* (C.U.P.); Diderot, *Paradoxe sur le Comédien* (C.U.P.); Rousseau, *Discours sur l'inégalité* (C.U.P.); Sedaine, *Le Philosophe sans le savoir* (Classiques Larousse); Bernardin de Saint-Pierre, *Paul et Virginie* (M.U.P.).

For additional reading:—J.-J. Rousseau, *Confessions*; Voltaire, *Lettres philosophiques* (Blackwell).

(ii) *The Novel from Chateaubriand to Proust.*

Prescribed texts:—Chateaubriand, *Atala, René*; Stendhal, *Le Rouge et le Noir*; Balzac, *La Cousine Bette*; Flaubert, *Madame Bovary*; Zola, *L'Assommoir*; Proust, *Du côté de chez Swann*.

For additional reading:—Mme de Staël, *Corinne*; Constant, *Adolphe*; E. et J. de Goncourt, *Germinie Lacerteux*; Barrès, *Les Déracinés*.

(iii) *Poetry from Lamartine to Mallarmé.*

Prescribed texts:—Lamartine, *Œuvres choisies* (ed. Levaillant, Hatier); Hugo, *Choix de Poèmes* (ed. Gaudon, M.U.P.); Vigny, *Les Destinées*; Baudelaire, *Les Fleurs du Mal*.

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For additional reading:—Nerval, *Les Chimères*; Gautier, *Emaux et Camées*; Verlaine, *Choix de Poésies* (Fasquelle); Rimbaud, *Poésies*; Mallarmé, *Poésies*.

IV. SPECIAL SUBJECTS.—

Either

(a) ROMANCE LINGUISTICS

(i) The Growth and Expansion of the Standard Forms of the Romance Languages.

1. Methodology: I. Jordan and J. Orr, *Introduction to Romance Linguistics* (Methuen); *either* W. von Wartburg, *Problèmes et méthodes de la linguistique* (Presses univ. de Fr.) or same in Spanish adaptation by D. Alonso and E. Lorenzo, *Problemas y métodos de la Lingüística* (C.S.I.C.); A. Dauzat, *La Géographie linguistique* (Flammarion).
2. Development of the Romance Languages: A. Monteverdi, *Manuale di avviamento agli studi romanzi* (Vallardi, Milan); *either* W. von Wartburg, *Die Ausgliederung der romanischen Sprachräume* (Francke, Berne) or the same in Spanish translation by M. Muñoz Cortés, *Fragmentación lingüística de la Romania* (Editorial Gredos).

and *either*

- (ii) Prescribed texts:—*La Vie de Saint Alexis* (ed. Storey, Blackwell); *La Chanson de Sainte Foi d'Agen* (ed. Thomas, Cl. fr. du m. â.); Dionisotti and Grayson, *Early Italian Texts* (Blackwell); selected passages from *Poema del Cid* (ed. Pidal).

or

- (iii) A Course in the Phonetics of the Romance Languages to be given in the Department of Phonetics (see Index). This alternative option is available only to students who have previously obtained a pass in the Ordinary course in Phonetics, or by special permission of the respective Heads of Departments.

Or

(b) ANGLO-NORMAN STUDIES.

Prescribed texts:—*La Folie Tristan d'Oxford* (ed. Hoepffner, Pub. de l'Univ. de Strasbourg); *La Résurrection du Sauveur* (ed. J. G. Wright, Cl. fr. du m. â.); *Fouke Fitz-Warin* (ed. L. Brandin, Cl. fr. du m.â.).

For reference:—M. K. Pope, Appendix to *From Latin to Modern French* (M.U.P.); F. M. Maitland, *Introduction to the Year Book of I Edward II* (Selden Society); J. Vising, *Anglo-Norman Language and Literature* (O.U.P.); E. Walberg, *Quelques aspects de la littérature anglo-normande* (Droz); M. D. Legge, *Anglo-Norman in the Cloisters* (E.U.P.); *La Folie Tristan* (ed. Bédier, Soc. des anc. textes fr.); *La Seinte Resurreccion* (ed. T. A. Jenkins, etc., Anglo-Norman Text Soc.); A. C. Wood, *Fulk Fitz-Warin* (Blades, East and Blades).

Or

(c) LITERATURE: POETRY FROM DESPORTES TO LA FONTAINE.

Prescribed texts:—Relevant texts in A. J. Steele, *Three Centuries of French Verse* (Edin. Univ. Press); Malherbe, *Poésies* (ed. Martinon, Garnier or Lavaud, Droz); Théophile de Viau, *Œuvres poétiques* (ed. Streicher, Textes litt. fr.); Tristan l'Hermite, *Les Amours et autres poésies* (ed. Camo, Garnier).

For reference:—M. Raymond, *L'Influence de Ronsard sur la poésie française*; R. Lebègue, *La Poésie française de 1560 à 1630*; A. Adam, *Histoire de la littérature française au dix-septième siècle*, vols. i and ii; J. Lavaud, *Desportes*; R. Fromilhague, *Malherbe*; F. Brunot, *La doctrine de Malherbe*; A. Adam, *Théophile de Viau*; G. Mongrédien, *Les Précieux et les Précieuses*; *Revue des*

Courses of Instruction (Lang. and Lit.)

sciences humaines (Lille), fasc. 55-56, 1949; O. de Mourgues, *Metaphysical, Baroque, and Précieus Poetry*; J. Rousset, *La Littérature de l'âge baroque en France*; R. Winegarten, *French Poetry in the Age of Malherbe*.

Or

(d) EVOLUTION OF COMEDY BETWEEN MOLIERE AND BEAUMARCHAIS.

Prescribed texts:—Regnard, *Le Légataire universel*; *Le Joueur* (Classiques Larousse); Dancourt, *Les Bourgeoises à la mode* (Camb. Univ. Press); Lesage, *Turcaret* (Classiques Larousse); D'Allainval, *L'Ecole des Bourgeois* (Camb. Univ. Press); Marivaux, *Les Fausses Confidences*; *Les Serments indiscrets*; Piron, *La Métromanie*; Gresset, *Le Méchant*.

For reference and additional reading:—E. Lintilhac, *Hist. générale du théâtre*, t.4 (Flammarion) 1909; G. Lenient, *La Comédie au 18e siècle* (Hachette) 1888; H. C. Lancaster, *Sunset* (Oxford Univ. Press) 1945; J. Lemaitre, *La comédie après Molière* etc. (Hachette) 1882; H. Bergson, *Le Rire*.

Course B (for students seeking Honours in French Language and Literature alone). Subjects of study and prescribed books as for Course A above, and:—(a) French Mediæval Comedy: Jean Bodel, *Le Jeu de Saint Nicolas* (ed. Warne, Blackwell); *Cortois d'Arras* (ed. Faral, Cl.fr.m.â.); *Le Garçon et l'Aveugle* (ed. Roques, Cl.fr.m.â.); *Maître Pathelin* (ed. Holbrook, Cl.fr.m.â.); (b) Chrétien de Troyes and the Roman Courtois: *Le Chevalier de la Charrette* (ed. Roques, Cl.fr.m.â.).

Class examination: As for Course A above, and: B Special. For dates, see p. 473.

HONOURS EXAMINATIONS IN FRENCH

Examination:—

There will be eight papers:—Essay; prose composition; translation from French; language; literature (2 papers); special subject; history and civilisation. An additional paper on mediæval language and literature will be taken by candidates for Honours in French Language and Literature alone. Every candidate will be tested orally.

Regulations for French Honours after German, Italian, Russian or Spanish.

Candidates who have obtained first- or second-class Honours in either German, Italian, Russian or Spanish with French as their subsidiary language may proceed to the Final Honours examination in French after one year's attendance in the Final Honours class. Such candidates may be required to attend Honours courses in French concurrently with their Final Honours course in their first language. They must complete a total period of six months' study in France before receiving attestation of their performance in the final Honours examination in French.

French Library (Minto House)

The French class library and reading-room are intended for the use of students who are reading for Honours in French or in Modern Languages with French as a subsidiary language. Annual subscription, 5s.

GERMAN

PROFESSOR MASON; Mr. WARDALE, Reader; Dr. KATE SILBER, Dr. FURNESS and Mr. GEORGE, Lecturers

(a) Special Tutorial Course

Mon. and Thurs. at 5 throughout the three terms (the first meeting will be on the first Thursday of the autumn term, at 5 in Minto House), for students of any Faculty who desire to acquire a reading knowledge of German. No

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previous knowledge of German is necessary. but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th ed., Oliver and Boyd).

(b) First Ordinary Course

Entrance qualification for this class:—A pass in German on the higher standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Class hours:—Mon., Tues., Thurs. and Fri. at 2, with tutorial meetings at times to be arranged. The class provides:—(1) Practice in reading, writing and speaking modern German, through the intensive study of portions of the prescribed texts, written exercises in translation, composition and essay-writing, and tutorial work in small groups; (2) lectures on German literature, history, culture and language, partly in connection with the prescribed texts and partly as a preparation for the more advanced work of the later years of the course. Students who intend to proceed to the Intermediate Honours course must attend, and pass an examination on, lectures dealing with the history of the German language.

Prescribed books:—1. Lessing, *Nathan der Weise* (Reclam); Goethe, *Egmont* (Reclam); Schiller, *Braut von Messina* (Nelson); Closs and Pugh Williams, *The Harapp Anthology of German Poetry*. 2. Eichendorff, *Das Marmorbild* (Reclam); Stifter, *Bergkristall* (Reclam); Storm, *Aquis submersus* (Reclam); Waidson, *German Short Stories 1945-1955* (Cambridge University Press). 3. Eggeling, *Advanced German Composition*; Wardale, *German Pronunciation* (Edin. Univ. Press); Viëtor, *Deutsches Dichten und Denken von 1700-1890* (Götschen).

Class examination dates, see p. 473.

(c) Second Ordinary Course

Class hours:—Mon., Tues., Thurs. and Fri. at 2, with tutorial meetings at times to be arranged. This class is normally open only to students with a good record in the First Ordinary course who have passed the First Ordinary degree examination. Any others must satisfy the Professor that they are properly qualified. The work is on the same general lines as the First Ordinary course, but is more advanced.

(d) Intermediate Honours Course

Students should not decide finally on reading for Honours in Modern Languages (with German as principal or secondary language) until they have proved their fitness by obtaining a first- or second-class merit certificate in the First Ordinary course, or in some other way that satisfies the Professor. They will then perform the work of the Second Ordinary course and in addition study Middle High German and the history of the German language and attend Course I of the courses in German History, in preparation for the Intermediate Honours examination. The standard for a pass in this examination will be higher throughout than for one in the Second Ordinary examination. Those who have attended, or are attending, the class of European History as one of the subjects outside their Honours group, need not attend the special lectures on German History.

SECOND ORDINARY AND INTERMEDIATE HONOURS COURSES

Prescribed books:—1. Goethe, *Urfaust* (ed. Samuel, Macmillan); Goethe, *Selected Letters 1770-86* (Blackwell); Grillparzer, *Des Meeres und der Liebe Wellen* (Reclam); Hebbel, *Maria Magdalene* (Reclam); Heine, *Deutschland, ein Wintermärchen* (Reclam); Hauptmann, *Michael Kramer* (Reclam). 2.

Courses of Instruction (Lang. and Lit.)

Kleist, *Michael Kohlhaas* (Gute Schriften); Gotthelf, *Die schwarze Spinne* (Gute Schriften); Thomas Mann, *Tonio Kröger* (Fischers Schulausgabe). 3. Eggeling, *Advanced Prose Composition*; Viëtor, *Deutsches Dichten und Denken von 1700-1890*. 4. (For Intermediate Honours students only): Wright, *M.H.G. Primer*; *Der arme Heinrich* (Blackwell); Nietzsche, *Geburt der Tragödie* (Reclam).

Class examination dates, *see* p. 473.

ORDINARY, SECOND ORDINARY AND INTERMEDIATE HONOURS DEGREE EXAMINATIONS

In addition to an oral test, there will be three papers for (b) and (c):—(1) German literature and German history, from class lectures and the reading recommended; (2) Prescribed texts in literature; (3) Unseen translation from and into German and a German essay. Candidates must show an adequate knowledge of the German language in *each* of these tests. For (d), in addition to the three papers and oral test as for (c), there will be a paper on the M.H.G. text and on the history of the German language.

(e) Honours Courses

Mon. to Fri., 10-12, with tutorials at times to be arranged. The work includes:—Translation, composition, essays, German literature outlines 1600-1740, German literature 1740-1933, German history (especially social history) 1740-1948, O.H.G. and M.H.G. texts and the history of the German language. Candidates must also attend Course II of the courses in German History.

HONOURS CURRICULUM AND EXAMINATIONS IN GERMAN

Regulations for Honours in German.

Honours may be taken in Modern Languages with German as a primary language and Celtic, French, Italian, Latin, Russian or Spanish as a secondary language. After passing the Intermediate Honours examinations in German and in their secondary language, and the examinations in their outside subjects, candidates for this degree spend a period of at least nine months continuously at a German-speaking university or other approved institution. This period may begin either in October or in January. If it begins in January candidates must attend the German Honours classes in Edinburgh in the autumn term. All candidates must matriculate in Edinburgh for the whole year, and while in Germany must pursue an approved course of study, including attendance at lectures or classes on modern German literature, German history and the German language. They must further submit regularly, as directed by the Professor, German essays and reports on their studies, including an essay of some 6000 words on an approved subject connected with German life and institutions at the present day. Account will be taken of this essay in the final assessment of the candidate's Honours work. In their final year candidates attend the German Honours classes in Edinburgh, and Course II of the courses in German History. In lieu of the special subject prescribed below (paper 7) candidates whose secondary language is French or Spanish *may* attend approved courses in their secondary language and submit themselves for a corresponding Honours paper. If they contemplate proceeding to full Honours in that language after one year's further study, they may be required to attend approved courses in their secondary language concurrently with their final Honours course in German, and to substitute for their special subject as prescribed below an approved course and the corresponding Honours paper in their secondary language.

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Regulations for German Honours after French, Italian, Russian or Spanish.

Candidates who have gained Honours in Modern Languages of the first or the second class, with German as a secondary language, may proceed to the final Honours examination in German after one year's attendance at the German Honours class, provided that they have attended approved Honours courses in German and taken a corresponding paper in the Honours examination in German. These candidates must complete a total period of six months' study in Germany before receiving attestation of their performance in the final Honours examination in German.

Honours Examination:—

Eight papers of three hours each will be set:—

1. Translation from German.
2. Translation into German.
3. German Essay.
4. German Literature I—
 - (a) 1600-1832 (*without* Goethe and Schiller).
 - (b) 1832-1933.
5. German Literature II—
 - (a) Goethe.
 - (b) Schiller.
6. German History.
7. Mediæval texts and history of the German language.
8. Special Subject.

There will also be an oral examination.

Prescribed books:—

Paper 4. For background:—Burkhard, *Schriftwerke deutscher Sprache*, vols. i and ii. The questions will test, permitting considerable freedom of choice, the student's knowledge of representative works of the outstanding writers from Lessing to Thomas Mann.

Paper 5. For background:—Korff, *Geist der Goethe-Zeit*, vols. i and ii. The questions will test the student's knowledge of the major works of the two poets, with less emphasis on the productions of Goethe *after* 1808, except for *Faust II* and the more important late lyrics.

Paper 6. (a) German History, 1740-1945, with special attention to social and constitutional history. (Books recommended:—Bruford, *Germany in the Eighteenth Century*; Meinecke, *Das Zeitalter der deutschen Erhebung*; Stadelmann, *Soziale und politische Geschichte der Revolution von 1848*; F. Schnabel, *Deutsche Geschichte im 19. Jahrhundert*; H. Herzfeld, *Die moderne Welt*. (b) Course II of the courses in German History.

Paper 7. (Mediæval texts and history of the German language). W. Burkhard, *Kleines althochdeutsches Lesebuch* and *Schriftwerke deutscher Sprache I*; *Selections from Hans Sachs* (Blackwell). Books recommended:—Braune, *A.H.D. Grammatik*; Michels, *M.H.D. Elementarbuch*; Priebisch and Collinson, *German Language*, or Bach, *Geschichte der deutschen Sprache*; Hirt, *Etymologie der neuhochdeutschen Sprache*. Books for reference:—Loewe, *Germanische Sprachwissenschaft*; Wilmanns, *Deutsche Grammatik*.

Paper 8. Special Subject.

Either

A. HISTORY OF THE GERMAN THEATRE, 1730-1830.

Texts:—(a) Sources—Brandes, *Meine Lebensgeschichte*; Iffland, *Ueber meine theatralische Laufbahn*; Genast, *Erinnerungen eines alten Schauspielers*; (b) plays—Gottsched, *Der sterbende Cato*; Iffland, *Die Jäger*; Kotzebue, *Menschenhaß und Reue*; (c) historical presentations—Bruford, *Theatre, Drama*

and Audience in Goethe's Germany (1950); Wahle, *Das Weimarer Hoftheater unter Goethes Leitung* (1892). Books for reference: Calm, *Kulturbilder aus der deutschen Theatergeschichte*; Devrient, *Geschichte der deutschen Schauspielkunst*; Eloesser, *Aus der grossen Zeit des deutschen Theaters*; Kindermann, *Theatergeschichte der Goethezeit*; Knudsen, *Goethes Welt des Theaters*; J. Petersen, *Das deutsche Nationaltheater*.

Or

B. MEDIAEVAL LITERATURE.

Wolfram von Eschenbach and the Legend of the Gräl.

Text:—*Parzival*, ed. A. Moret (Bibliothèque de philologie germanique, Vol. III). Books for reference:—W. Golther, *Die deutsche Dichtung im Mittelalter*; M. F. Richey, *The Story of Parzival and the Graal*; J. Fourquet, *Wolfram d'Eschenbach et le Conte del Graal*; P. Wapnewski, *Wolfram's Parzival*.

Or

C. GERMAN NEO-MYTHICAL POETRY.

(Visionary and symbolic pronouncements on the crises of European culture from the French Revolution to the period of the Weimar Republic).

Texts:—Goethe, *Pandora*; Hölderlin, *Elegien* and *Späte Hymnen*; Nietzsche, *Also sprach Zarathustra* (Part I); Stefan George, *Das neue Reich*; Rilke, *Duineser Elegien* and *Sonette an Orpheus*. Books recommended for consultation: Hans-Urs von Balthasar, *Die Apokalypse der deutschen Seele* (Pustet, Salzburg, 1939); Gundolf, *Goethe and Stefan George*; Paul Böckmann, *Hölderlin und seine Götter*; Ronald Peacock, *Hölderlin* (1938); Ernst Bertram, *Nietzsche, Versuch einer Mythologie* (Bondi 1929); Katharina Kippenberg, *Rilkes Duineser Elegien und Sonette an Orpheus* (Insel 1948); Dieter Bassermann, *Der späte Rilke* (Leibniz-Verlag, München 1947).

Or

D. GERMAN NATURALISM AND EARLY EXPRESSIONISM, WITH SPECIAL REFERENCE TO THE DRAMA.

Texts:—(a) Theoretical Writing: J. and H. Hart, *Kritische Waffengänge*; H. Bahr, *Expressionismus*; K. Edschmid, *Über den Expressionismus in der Literatur und die neue Dichtung*. (b) Drama: L. Anzengruber, *Der Meineidbauer*; A. Holz and J. Schlaf, *Papa Hamlet, Die Familie Selicke*; G. Hauptmann, *Vor Sonnenaufgang, Die Weber*; A. Schnitzler, *Liebeleli*; M. Halbe, *Jugend*; F. Wedekind, *Frühlingserwachen, Der Erdgeist, Die Büchse der Pandora*. For reference: F. R. Arnold, *Das moderne Drama* (Strasbourg), 1912; A. Soergel, *Dichtung und Dichter der Zeit* (Leipzig), 1922; K. Mahrholz, *Deutsche Dichtung der Gegenwart* (Berlin), 1926; O. Walzel, *Die deutsche Literatur von Goethes Tod bis zur Gegenwart*, 1929; H. Naumann, *Die deutsche Dichtung der Gegenwart* (Stuttgart), 1930; J. Bithell, *Modern German Literature* (London), 1946. In addition to the detailed study of the prescribed texts, a sound general knowledge of other relevant material will be required, including influential works of Zola, Ibsen, Dostoyevsky, Strindberg and Nietzsche; specimens of the lyric and the novel of German Naturalism and Early Expressionism will also be studied.

Or

E. GERMANIC PHILOLOGY, WITH SPECIAL REFERENCE TO GOTHIC.

Texts:—J. Wright, *Grammar of the Gothic Language* (1921); W. Streitberg, *Die gotische Bibel*. Books for reference:—R. Loewe, *Germanische Sprachwissenschaft* (1933); E. Prokosch, *A Comparative Germanic Grammar* (1939); H. Naumann, *Althochdeutsche Grammatik* (1923); Priebisch and Collinson, *The German Language* (1946); E. Kiekers, *Handbuch der vergleichenden gotischen Grammatik* (1933); M. H. Jellinek, *Geschichte der gotischen Sprache* (1926); H. Hirt, *Handbuch des Urgermanischen* (1931-32); E. Gamillscheg, *Romania Germanica* (1934-36). Dictionaries:—S. Feist, *Etymologisches Wörterbuch der*

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gotischen Sprache (1931); F. Holthausen, *Etymologisches Wörterbuch der gotischen Sprache* (1931). An elementary knowledge of Greek is required for this course.

German Library (Minto House)

This library and reading-room is open to students in the Intermediate Honours and Honours classes in German. Subscription for the year, 5s.

CELTIC

PROFESSOR JACKSON; and the Rev. W. MATHESON, Lecturer

Elementary Class

Three hours a week at a time to be arranged. The course prepares for admission to the First Ordinary course in Celtic for those lacking the necessary qualifications in Scottish Gaelic. No previous knowledge of the language is required. Text-book:—Maclaren, *Gaelic Self-Taught*. Simple Gaelic texts will also be read.

Class examination dates: As announced in class.

Ordinary Courses

These are designed to provide a familiarity with the language, literature, history and traditions of the Gaelic peoples of Scotland and Ireland from late mediæval times to the present, as a background to the understanding of modern Scotland. Some previous knowledge of Scottish Gaelic is necessary, and students will normally either be native speakers or will already have acquired a satisfactory command of the language.

First Ordinary Course

Mon., Tues., Thurs. and Fri., with tutorial instruction, at 4. The entrance qualification is a pass in Gaelic on the higher standard in the Leaving Certificate or the Preliminary examination; or a merit certificate in the Elementary Class; or some equivalent evidence of proficiency. The class provides practice in reading and writing Scottish and Irish Gaelic, and the study of their literature, with the reading of texts; and also of the history of the Highlands.

Prescribed books:—Watson, *Rosg Gàidhlig* and *Bardachd Ghàidhlig*; Watson, *The Gaelic Songs of Mary Macleod*; Maclean, *Literature of the Highlands*; Kermack, *The Scottish Highlands*; The Christian Brothers, *Irish Grammar*; An Scabhac, *An Baile Seo Againne*; Bergin, *Stories from Keating*; Corkery, *The Hidden Ireland*; Murphy, *Glimpses of Gaelic Ireland*; Jackson, *A Celtic Miscellany*.

Recommended books:—Campbell, *Popular Tales of the West Highlands*; Campbell Hay, *Fuaran Sléibh*; Craig, *Òrain Luaidh*.

Class examination dates: As announced in class.

Second Ordinary Course

Mon., Tues., Thurs. and Fri., with tutorial instruction, at a time to be arranged. The entrance requirement is a first- or second-class merit certificate in the First Ordinary class, or an equivalent standard in the degree examination.

Prescribed books:—Matheson, *Songs of John Maccodrum*; Watson, *Scottish Verse from the Book of the Dean of Lismore*; Van Hamel, *Compert Con Culainn*; O'Keefe, *Buile Shuibhne*; O'Rahilly, *Measgra Dánta* and *Dánta Grádha*; Dillon, *Early Irish Literature* and *The Cycles of the Kings* and *Early Irish Society*; Murphy, *Saga and Myth in Ancient Ireland* and *Ossianic Lore and Romantic*

Courses of Instruction (Lang. and Lit.)

Tales; Hyde, *Literary History of Ireland*; Quiggin, *Prolegomena to the Study of the Later Irish Bards*; Knott, *Irish Classical Poetry*.

Recommended books:—Cross and Slover, *Ancient Irish Tales*; Jackson, *Early Celtic Nature Poetry*; Henri, *Irish Art*; J. L. Campbell, *Highland Songs of the Forty-Five*; MacLean, *Dáin do Eimhir*; Thomson, *An Dealbh Briste*.

Class examination dates: As announced in class.

ORDINARY AND SECOND ORDINARY DEGREE EXAMINATIONS

There will be three papers of three hours each: (1) prescribed books; (2) unseen passages; (3) translation into Scottish Gaelic; history and literature.

Intermediate Honours Courses

Intermediate Honours is taken in the second year. The entrance requirement is a first- or second-class merit certificate in the First Ordinary course, or an equivalent standard in the degree examination. Students will perform the work of the Second Ordinary course. They will be required to pass all the Second Ordinary examinations at a higher standard and to take an extra paper in the Gaelic language and in history and literature.

Honours Courses

Three hours a week to be arranged. Junior Honours will be taken in the third and Senior Honours in the fourth year. Honours candidates must attend the first 12 lectures of Course I in Scottish History; this may be done in the Intermediate Honours year, but in no case later than the Junior Honours year. The Honours Course in Celtic Studies is designed to give a thorough training in the history of Celtic civilisation in the wide sense and especially in that of the British Isles in early and mediæval times. In the field of language, stress is laid on Old and Middle Irish and Welsh and the historical grammar of the Goedelic group.

HONOURS CURRICULUM AND EXAMINATIONS IN CELTIC STUDIES

Regulations for Honours in Celtic Studies.

Honours may be taken in Celtic Studies with Latin, Greek, French or German as a secondary subject. (For Honours in Modern Languages with French, German or Spanish as primary language and Celtic as a secondary language, see Index, "Celtic".) Candidates for Honours in Celtic Studies must have passed the Intermediate Honours examination in the secondary subject and the examinations in the outside subjects. They are recommended to take the Ordinary Course in Phonetics as one of the outside subjects.

Honours Examination

The work includes:—

1. Old and Middle Irish texts and grammar.
2. Early Welsh texts and grammar.
3. Comparative Celtic philology and the historical grammar of the Goedelic languages.
4. Literature and folklore.
5. History and archæology.
6. A special subject chosen from any one of the following fields: Celtic linguistics, literature, folklore, history, and archæology.
7. Scottish Gaelic language and composition.
8. Unprepared translation of texts in the Gaelic languages and Welsh.

In the Final Honours examinations eight papers of three hours each will be set, corresponding to the subjects of study enumerated above.

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Prescribed books:—

Paper 1.—Thurneysen, *Grammar of Old Irish*; Shaw, *The Dream of Oengus*; Strachan, *Old Irish Paradigms and Glosses*; *Selections from the Táin*; Dottin, *Grammaire d'Irlandais Moyen*; Hull, *Longes Mac n-Uislenn*; Windisch, *Fis Adamnáin*; Greene, *Fingal Rondán*; Atkinson, *Passions and Homilies*, pp. 68-81; Knott, *Syllabic Irish Poetry*; R. Meyer, *Merugud Ullx*; Watson, *Mesca Ulad*.

Paper 2.—Strachan, *Introduction to Early Welsh*; Thomson, *Pwyll Pendevic Dyvet*; Williams, *Cyfranc Lludd a Llefelys* and *Pedeir Keinc y Mabinogi*, and *Canu Llywarch Hen*, and *The Computus Fragment*; the *Surrexit Memorandum* in Rhys and Evans, *Book of Llan Dav*.

Paper 3.—Lewis and Pedersen, *Comparative Celtic Grammar*; O'Rahilly, *Irish Dialects*; Kneen, *Grammar of the Manx Language*; Jackson, *The Ogam Inscriptions of Southern Britain* (Chadwick Memorial volume), *Some Remarks on the Gaelic Notitia in the Book of Deer* (Ériu XVI), *Common Gaelic* (Rhys Lecture, 1951), *Contributions to the Study of Manx Phonology and Language and History in Early Britain*, Part I.

Paper 4.—Flower, *The Irish Tradition*; Chadwick, *The Growth of Literature*, I; Bell, *The Development of Welsh Poetry*; O Súilleabháin, *Handbook of Irish Folklore*, chaps. X and XIII; Murphy, *Bards and Filidh* (Éigse II); Williams, *Lectures on Early Welsh Poetry*; Bromwich, *The Character of the Early Welsh Tradition*, in Chadwick, *Studies in Early British History*.

Paper 5.—Green, *The Irish State*; Wainwright, *The Problem of the Picts*; Williams, *Introduction to the History of Wales I*; Allen, *Celtic Art*; Piggott, *British Prehistory*; MacNeill, *Phases of Irish History and Early Irish Population Groups*; Chadwick, *Early Scotland*; Watson, *Celtic Place-Names*.

Paper 6.—Special reading to be assigned.

Paper 7.—Borgström, *Linguistic Survey of the Gaelic Dialects of Scotland*; O'Rahilly, *Some Verbal Forms* (Scottish Gaelic Studies III); Anderson, *The Syntax of . . . IS* (Zeitschrift für Celtische Philologie, VII), and *The Syntax of . . . THA* (Zeitschr. für Celt. Phil., VIII); Fraser, *Present and Future Tenses* (Zeitschr. für Celt. Phil., X), and *The Relative Clause in Scottish Gaelic* (Celtic Review VI), and *The Tenses of the Verb* (Transactions of the Gaelic Society of Inverness XXVIII); Watson, *Vernacular Gaelic in the Book of the Dean* (Trans. Gael. Soc. Inverness XXXI).

Celtic Library

The class library is open to all students in the Department. There is an annual deposit of 10s., which will be refunded at the end of the year when the student has returned all the books uninjured.

ITALIAN

Dr. ROSSI, Reader; Mr. PHILLIPS, Lecturer

Elementary Class

This class will be held thrice weekly at an hour to be fixed to suit the convenience of intending students, and deals with the language, grammar and idiomatic speech up to the higher standard of the Preliminary examination. Two papers of two hours each will be set during the third term, of the same standard as, and similar to, those set for the Higher Standard of the Scottish Universities Preliminary Examination.

Prescribed books:—for the first term: Russo, *Practical Italian Grammar* (Heath), or eventually another Grammar to be assigned at the beginning of the first term if available; for the second term: the same and E. Allison Peers,

Courses of Instruction (Lang. and Lit.)

Extracts for Italian Translation (Harrap); Mannucci-Borghini, *Antologia della letteratura italiana*, vol. iv (Paravia); for the third term: the same, and Purves, *A First Book of Italian Verse* (Oliver & Boyd).

Books recommended:—*Italy, A Companion to Italian Studies* (Methuen); A. Camilli, *Pronuncia e grafia dell'italiano* (Sansoni, Florence); Trbalza, *Grammatica italiana* (or Goidanich, *Grammatica*, Zanichelli); Purves, *A Dictionary of Modern Italian*; Petrocchi, *Novo dizionario scolastico*; Reboria, *English-Italian Dictionary* (Cassell).

Class examination dates, see p. 474.

Ordinary Course

Entrance qualification:—A pass in Italian on the higher standard in the Leaving Certificate or in the Preliminary Examination, or some equivalent evidence of proficiency.

Class hours:—Mon., Tues. and Thurs. at 2. In addition, one meeting a week devoted to tutorial work is obligatory on all members of the class. Lectures and tutorial assistance will be given on the following subjects: (1) LANGUAGE:—Grammar, idioms, prose composition, history of the language; (2) LITERATURE:—Outlines of Italian literature with particular regard to some authors of each period; Dante; Ariosto.

Prescribed books:—Palmieri, *Crestomazia della letteratura italiana* (Palumbo); Dante, *Divina Commedia* (any Italian commentary); Ariosto, *Orlando Furioso*; Boiardo, *Orlando Innamorato*; Pulci, *Morgante Maggiore* (any edition); E. Allison Peers, *Extracts* (Harrap).

Books recommended:—Rossi, *Storia della letteratura italiana* (Vallardi, Milan); Zonta, *Letteratura italiana* (U.T.E.T.—for advanced information on special subjects); Grandgent, *Dante* (Duffield); Toynbee, *Dante in English Literature*; Barbi, *Dante*; Flaminio, *Avviamento allo studio della Divina Commedia* (Giusti); Silva, *Corso di storia* (Principato); Cosmo, *Handbook to Dante Studies* (Blackwell); Foffano, *Il poema cavalleresco* (Vallardi); Rajna, *Lefonti dell'Orlando Furioso* (Sansoni); Vari, *L'Ottava d'Oro* (Mondadari); Nicholson, *Life and Genius of Ariosto* (Macmillan).

Class examination dates, see p. 474.

DEGREE EXAMINATIONS

Three papers of two hours each, comprising the following subjects:—Translation from English into Italian and *vice versa*; essay in Italian; questions on the history of Italian literature and the prescribed works; acquaintance with ten cantos of the *Inferno*, and with the general content of the poem; and with ten cantos of the *Furioso*, one canto of the *Innamorato* and one of the *Morgante*, or equivalent excerpts.

Practical exercises:—An optional class of Italian conversation and dictation and/or an optional class in advanced Italian conversation, will be held once weekly, free to all students of Italian, if a sufficient number of students ask to be enrolled; an examination will be held at the end of the third term. The examination is optional for students studying for the Ordinary degree, but must be passed by all students proceeding to Honours, not later than the third year of study.

Second Ordinary and Intermediate Honours Course

Entrance qualification:—a first- or second-class certificate gained in the ordinary class, if not exempted for special reasons.

Class hours:—Mon., Wed. and Thurs. at 12. One meeting a week for tutorial work is obligatory on all members of the class. Lectures will be given

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on the following subjects: Lyrical poets of the Renaissance; Novels and Novelists of the Risorgimento; exercises in idiomatic Italian and history of the language.

Prescribed books:—Poets of the Cinquecento (from Carli-Sainati, *Scrittori*, vol. ii); Poets of the Quattrocento (from *Antica lirica*, ed. Carducci); Michelangelo, *Poesie*; Bembo, *Rime*; Stampa and Colonna, *Liriche*; Manzoni, *Promessi Sposi*; D'Azeglio, *Fieramosca*; Grossi, *Marco Visconti*; Guerrazzi, *L'assedio di Firenze*; Nievo, *Confessioni*.

Books recommended:—Toffanin, *Il Cinquecento*; Buckhardt, *Renaissance*; *Trattati sull'amore* (ed. Zonta, publ. Laterza); Vari, *La vita italiana nel Cinquecento* (Treves); Castiglione, *Il Cortegiano*; Donadoni, *Gasparda Stampa*; Russo, *I narratori*; Croce, *Storia d'Italia*; Silva, *Corso di Storia*; Orsi, *Modern Italy*; Momigliano, *Opere e vita di Manzoni*.

Class examination dates, *see* p. 474.

DEGREE EXAMINATIONS

Four papers, comprising translation from English into Italian; translation into English from prescribed texts and texts read in class, with questions on them; history of the Risorgimento; history of Italian literature, with special reference to the Renaissance and the nineteenth century; unseen translation into English, and Italian essay.

N.B.—Students of the Elementary and Ordinary courses are expected to use currently their own copies of the *prescribed* books. Texts for Intermediate Honours course and *recommended* books will be available for temporary borrowing either in the University Library or in the Italian Library. Should any of them be unobtainable, other editions or texts will be prescribed at the beginning of the first term. The time table of all courses will be arranged according to the requirements of students.

Italian Literature for Honours in English

This class, which will meet at an hour to be arranged, is intended for English Honours students who choose to specialise in Literature or in Mediæval Studies and to take paper 15 in the Final Honours examination in English (*see* Honours Curriculum and Examinations in English). Such students will normally have already attended the Elementary Italian class in their first or second year. The ground to be covered will be:—General trends; the drama of the Renaissance; Ariosto, Tasso and the chevalesque and epic poems of the Renaissance.

Prescribed texts:—Trissino, *Sofonisba*; An., *Gl'ingannati*; Ariosto, *Il negromante*; Tasso, *Aminta*; Cinthio, *Altile*; excerpts and summary of the following poems: *Gerusalemme* (5 cantos), *Orlando furioso* (20 cantos), *Orlando innamorato* (3 cantos), *Morgante* (3 cantos), 3 minor poems of the Renaissance.

Books recommended:—R. W. Bond, *Early Plays from the Italian*; K. M. Lea, *Italian Popular Comedy*; Apollonio, *Storia del teatro italiano*; Foffano, *Il poema cavalleresco*; Gairdner, *The King of Court Poets*; Benedetti, *L'Orlando nella vita del popolo inglese*; Castelli, *La Gerusalemme nell'Inghilterra di Spenser*; Ireland, Tasso; Wiffen, *Life of Tasso*.

HONOURS CURRICULUM AND EXAMINATIONS IN ITALIAN

TYPE "A" WITH FRENCH OR SPANISH AS SECONDARY LANGUAGE

Curriculum—The normal curriculum for Honours in Italian "Type A" is as follows:—

1st Year:

First Ordinary Italian.

First Ordinary French (as for Course B)—or First Ordinary Spanish, with Romance Linguistics as for First Ordinary French Course B.

Courses of Instruction (Lang. and Lit.)

Subject outside the Honours group (students are advised to take the course of First or Second Ordinary Latin).

2nd Year:

Intermediate Honours Italian (as for Second Ordinary Course plus a tutorial course of one hour weekly on Italian History to be tested by an extra paper in the autumn and spring class examinations).

Intermediate Honours Course in secondary language.

Subject outside Honours Group (students are advised to take the European History Ordinary Course, 800-1939).

3rd Year:

Junior Honours Italian (a second course as for Second Ordinary Course).

Romance Linguistics with special reference to the History of the Italian language (a full course of Romance Linguistics as for Final Honours French (special subject (a)) and one hour weekly on the *Questione della lingua*, Italian vernacular and stylistic analysis).

History of Italian Art (to be tested by class examinations in autumn and spring terms). This course will be held in the Department of Fine Art.

4th Year: Final Honours:

Dante (one hour weekly and essays).

Two periods of Italian Literature (a third course as for Second Ordinary Course).

Italian writers of the twentieth century (one hour weekly tuition and essays).

History of Italian Art (if not taken in the third year).

Residence Abroad

At least a long vacation in Italy, including two months' minimum regular attendance at an approved summer course of an Italian university, shall be required of students, when not exempted for special reasons, and in any case before being enrolled in the third year the student must prove to the satisfaction of the Head of the Department that his capacity to converse in Italian is adequate. The attention of students intending to take up a teaching post under the Scottish Education Department is drawn to the regulation quoted on p. 295. For such students the Honours curriculum in Italian may be modified as follows: during the third year the student will be enrolled and attend regularly a full course of Italian literature and cognate subjects at an Italian university; regular attendance to be proved by a certificate signed by the teachers of the subjects chosen. The curriculum of the fourth year will be suitably adjusted for these students in order to cover the subjects of the Honours examination.

TYPE "B" WITH LATIN AS SECONDARY LANGUAGE

Curriculum—The normal curriculum for Honours in Italian "Type B" is as follows:—

1st Year:

First Ordinary Italian.

First or Second Ordinary Latin.

Subject outside the Honours Group (students are advised to take the European History Ordinary Course, 800-1939).

2nd Year:

Intermediate Honours Italian.

Intermediate Honours Latin.

Subject outside Honours Group.

3rd Year:

Junior Honours Italian.

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Latin Literature of the Italian Renaissance (readings from Petrarch, Boccaccio, Bruni, Enea Silvio, Pontano and Ficino: one hour weekly tuition in the autumn and spring terms with two class examinations—two papers each, one translation, the other essay).

Romance Linguistics with special reference to the History of the Italian Language as for Type "A".

4th Year: Final Honours:

Dante (one hour weekly tuition and essays).

Two periods of Italian Literature (a third course as for Second Ordinary Course).

Italian writers of the twentieth century (one hour weekly tuition and essays).

History of Italian Art or Classical Art.

Residence Abroad

As for Type "A".

Final Honours Examination

The Final Honours examination in Italian will consist of eight papers of three hours each as follows:—

1. Essay in Italian.
2. Prose Composition.
3. Unseen Translation.
4. History of the Italian Language.
5. Dante.
6. The Duecento and the Trecento (with Petrarch and Boccaccio).
7. The Renaissance (from Poliziano to Tasso inclusive).
8. The Risorgimento (from Parini to Carducci inclusive).

Every candidate will be tested orally: part of the oral examination will consist of questions on Italian writers of the twentieth century.

REGULATIONS FOR HONOURS IN ITALIAN AFTER HONOURS IN ANOTHER LANGUAGE

Candidates who have obtained First- or Second-Class Honours in another language and who have passed the Intermediate Honours examination in Italian may proceed to the Final Honours examination in Italian after one year's attendance in the Final Honours Class, and must complete or have completed the following curriculum. The Honours Courses for the fourth year plus Romance Linguistics with special reference to the History of the Italian language. (As for the third year of Type "A"). Residence abroad, as for Type "A".

HISPANIC STUDIES

Mr. WALTON, Reader, Head of Department
Miss CROSLAND and Mr. WAGG, Lecturers

Elementary Class

A class for students who have not passed the Preliminary examination in Spanish will be held three times weekly at an hour to be fixed to suit the convenience of intending students.

Courses of Instruction (Lang. and Lit.)

Prescribed books:—Littlewood, *Living Spanish*; Luperque, *Poemas Comen-tados* (Univ. of London Press); Alarcón, *El Sombrero de Tres Picos* (Macmillan); Walton, *A Spanish Reader for Adult Beginners* (Bell).

Class examination dates, see p. 475.

First Ordinary Course

Class hours:—Mon., Tues. and Thurs. at 11. Entrance qualification for this class:—A pass in Spanish on the higher standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Those members of the class who are prospective Intermediate Honours students require a pass in Latin on at least the lower standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency) before they enter the Intermediate Honours course in their second session; and they are strongly advised to secure such a pass before they begin their first session. The work will be as follows:—(1) LANGUAGE.—Translation and composition; and (2) LITERATURE, THOUGHT and INSTITUTIONS:—Outlines of Spanish Literature, etc., and a detailed study of prescribed texts. The third term may be devoted to the study of some aspect of Latin-American civilisation. Each member of the class must attend one tutorial meeting in the week.

A tutorial class for the reading and discussion of texts dealing with socio-logical and economic subjects may be held for the benefit of B.Com. students. Attendance at this class is optional.

Books recommended:—Wiseman, *Roman Spain*; Brennan, *The Literature of the Spanish People* (Cambridge University Press); Davies, *The Golden Century of Spain* (Macmillan); Madariaga, *Spain*; Walton, *Cervantes* (Cassell's *Living Thoughts* Series); Bell, *Castilian Literature*; Valbuena Prat, *Historia de la Literatura Española*; Trend, *The Origins of Modern Spain*.

Class examination dates, see p. 475; in addition to Prose examinations as announced in class.

DEGREE EXAMINATIONS

Three papers will be set:—

1. Prose composition and unseen translation.
2. Literature, Thought and Institutions.
3. Essay.

A knowledge of the following books will be required: those marked with an asterisk are for detailed study. Calderón, *El Alcalde de Zalamea*; * *Spanish Lyrics of the Golden Age* (ed. Tettenborn); * Cadalso, *Cartas Marruecas* (ed. Walton); Alarcón, *El Sombrero de Tres Picos*. Candidates will also be expected to show an acquaintance with the subject-matter of the following:—Trend, *The Civilisation of Spain*.

Double Course

A student who has passed the degree examination after the First Ordinary course in Spanish may complete a double course by attending the Second Ordinary course.

Second Ordinary Course

Class hours:—Mon., Wed. and Thurs. at 12, and one tutorial meeting a week. Entrance qualification for this class:—A merit certificate in the First Ordinary course or other adequate proof of fitness for admission.

Class examination dates, see p. 475.

DEGREE EXAMINATIONS

The first three papers in the Intermediate Honours examinations (see below).

Faculty of Arts

Intermediate Honours Course

Class hours:—Mon., Tues., Wed. and Thurs. at 12. Entrance qualification for this class:—A pass in Latin on at least the lower standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Students entering the Intermediate Honours class are required to attend the lectures on Romance Linguistics, which are included in the First Ordinary Course "B" in French, if they have not already attended these lectures. In addition to the ordinary lectures one meeting a week is devoted to tutorial instruction. The work of the class covers:—The history of the language; the detailed study of a mediæval text or texts; Spanish literature, thought and institutions, with special reference to a prescribed period or *genre*; translation; prose composition; and essay-writing.

Class examination dates, see p. 475; in addition to prose examinations as announced in class.

INTERMEDIATE HONOURS EXAMINATIONS

Four papers will be set:—

1. Prose composition.
2. Unseen translation (Spanish into English) and a Spanish essay.
3. Spanish Literature, Thought and Institutions, with special reference to some prescribed period or *genre*, together with prescribed books.
4. The history of the Spanish language, and mediæval texts for translation and philological comment.
5. An oral test.

Candidates for Honours in Arabic with Spanish as a secondary language will take, in lieu of paper 3, a special paper on the literature, thought and institutions of mediæval Spain.

Prescribed books:—(Those marked with an asterisk are for detailed study):—Language.—* R. Lapesa, *Historia de la Lengua Española*; Iordan and Orr, *An Introduction to Romance Linguistics*; * Menéndez Pidal, *Manual de Gramática Histórica Española*; * Ford, *Old Spanish Readings*; * *Poema del Cid* (selected passages).

LITERATURE, THOUGHT AND INSTITUTIONS.—

Special subject:—The ideological content of the works of Benito Pérez Galdós, with special reference to the *Novelas Contemporáneas*. Novels for detailed study:—*Doña Perfecta*; *Gloria*; *La Familia de Leon Roch*; *Angel Guerra*; *Fortunata y Jacinta*. For background reading:—Balseiro, *Los Novelistas Contemporáneos Españoles*.

Honours Course

Entrance qualification for this class:—A first- or second-class merit certificate in the Intermediate Honours class. The work of the class, which meets four times a week, will comprise:—Interpretation of mediæval Spanish texts and linguistic study of mediæval Spanish; study of the development of Spanish from Vulgar Latin; reading and criticism of Spanish authors, mediæval and modern; Spanish literature, thought and institutions from the Roman colonisation to the present day; the writing of essays; translation into English and into Spanish.

Spanish Literature for Honours in English

This class, which will meet at an hour to be arranged, is intended for English Honours students who choose to specialise in Literature or in Mediæval Studies and to take paper 15 in the Final Honours examination in English (see Honours Curriculum and Examinations in English). Such students will normally have

already attended the Elementary Spanish class in their first or second year. The ground to be covered in this course will be the Spanish Background of English Literature, with special reference to Cervantes and the picaresque novel. Mr. Walton may deliver, on dates to be announced later, a short course of lectures on this subject, the lectures being open to all members of the English classes.

HONOURS CURRICULUM AND EXAMINATIONS IN SPANISH

Regulations for Honours in Spanish

Honours may be taken in Modern Languages with Spanish as a primary language, and Arabic, Celtic, French, German or Latin as a secondary language. Other secondary languages may be offered with the approval of the Faculty. For Honours in Modern Languages with Arabic, French or German as a primary language and Spanish as a secondary language, *see* Index, "Spanish".

Curriculum—The normal four years' course for Honours in Spanish is:—

1st Year:

Ordinary Spanish, Ordinary course in secondary language; and one of the two subjects outside the Honours Group. (Long vacation, if possible, in Spain.)

2nd Year:

Intermediate Honours Spanish, Intermediate Honours course in secondary language; and the second outside subject. (Long vacation, if possible, in Spain.) Candidates must pass the Intermediate Honours examination both in Spanish and in the secondary language at the end of this year (June or September), and also in the two outside subjects. Students intending to take Final Honours in Spanish are advised to attend the lectures on the Geography of Spain.

3rd Year:

Candidates who can afford to spend the whole of this year as regular students in a Spanish or Spanish-American University are recommended to do so. If they are unable to spend the whole year abroad they must attend Honours course A or Honours course B (to be given in alternate years). They must also reside in Spain or Spanish-America for at least three months and attend a recognised course of study for foreigners. At the end of this third year, candidates must submit a dissertation upon some linguistic, literary or other topic approved by the Department before they leave Scotland.

4th Year:

Honours Spanish course; and a half-course in Spanish History.

Regulations for Double Honours.

Candidates whose second language is French or Italian or German, and who contemplate proceeding to full Honours in their second language after one year's further study, may be required to attend approved courses in their second language concurrently with their Final Honours course in Spanish, and to take a corresponding paper in the Honours examination in that language.

Candidates who have obtained first- or second-class Honours in either French or German with Spanish as their subsidiary language may proceed to the final Honours examination in Spanish after one year's attendance in the final Honours class; provided they have previously attended approved Honours courses in Spanish as set forth in the alternative requirements for the Final Honours class in French or German.

Faculty of Arts

Honours Examination

The Final Honours examination will comprise the following papers:—

1. Spanish prose composition.
2. Unseen translation from Spanish and a Spanish essay.
3. Spanish literature, thought and institutions before 1500, together with mediæval texts (seen and unseen) for translation and philological comment.
4. Spanish literature, thought and institutions from 1500 to 1700.
5. Spanish literature, thought and institutions after 1700.
6. The ancient and later European background of Spanish literature and thought.
7. The history of Spain from 1479 to 1598 and the geography of Spain.
8. Special Subject. *Either* (a) Popular Latin and Romance Linguistics, *or* (b) a paper on the history and institutions of Latin-America,¹ *or* (c) an additional paper on Spanish History (at the option of the Department of History), *or* (d) the literary relations between England and Spain from 1742 to 1843.

There will also be an oral examination.

For paper 8 candidates must notify the Head of the Department of their choice not later than the third term of their Intermediate Honours year. Candidates whose secondary language for Honours in Spanish is Arabic must take paper 8 (a). Those who select paper 8 (a) should consult the Lecturer in Romance Linguistics. A course of lectures on mediæv. I Latin, open to candidates selecting paper 8 (a), may be given in the Latin Department.

In their Final Honours years candidates should attend the course given in the English Department on the Classical Background of English Literature, and should read the texts recommended by the Lecturer for that course.

A short course of lectures on the literature, thought and institutions of Muslim Spain may be given in summer in the Department of Arabic. It will be open to all candidates for Honours in Spanish and may be taken in their second year.

Special subjects for intensive study will be prescribed in connection with paper 8 (a) or (b). Until further notice these will be:—(a) Language, as in section III below; (b) Latin America—The countries of the River Plate area.

Texts for detailed study:—José Hernández, *Martín Fierro*; D. F. Sarmiento, *Facundo*; E. Rodó, *Ariel*.

Prescribed books.

(Books for detailed study are marked with an asterisk.)

Language.—W. Meyer Lübke, *Einführung in das Studium der romanischen Sprachwissenschaft* (Spanish translation, Américo Castro, 3rd ed.); Grandgent, *Vulgar Latin* (in the Spanish translation); Bourciez, *Éléments de linguistique romane*; Jordan and Orr, *An Introduction to Romance Linguistics*; Carnoy, *Le Latin d'Espagne d'après les inscriptions*; Menéndez Pidal, *Manual de Gramática Histórica Española*, *Orígenes del Español*, and *Documentos Lingüísticos*; R. Lapresa, *Historia de la Lengua Española*; Williams, *From Latin to Portuguese*; Fabra, *Abrégé de Grammaire Catalane*.

Texts for detailed linguistic study:—Juan Ruiz, *El Libro de Buen Amor*; Ford, *Old Spanish Readings*.

Literature, Thought and Institutions.—

I. Before 1500:—*Poema del Cid* (ed. Menéndez Pidal, 3 vols.); *Las Siete Partidas* (ed. Real Academia de la Historia, 3 vols.); Ibn-Tofail, *El filósofo autodidáctico* (Spanish trans. by A. González Palencia); Juan Ruiz, **El Libro de Buen Amor* (ed. Clásicos Castellanos); Juan Manuel, *El Conde Lucanor* (ed. Krapf); Pero López de Ayala, *Poesías* (ed. Kuersteiner); Santillana,

¹ Option (b) has been temporarily discontinued.

Prohemio al Condestable (ed. Sorrento); * *La Celestina* (ed. Calleja); Jorge Manrique, *Coplas* (ed. Foulché Delbosc).

II.—1500-1700:—Le Strange, *Spanish Ballads* (Cambridge University Press); Torres Naharro, *Obras selectas*; * Garcilaso de la Vega, *Poesías* (ed. Navarro Tomás); Juan de Valdés, *Diálogo de la Lengua* (ed. Perry); Alfonso de Valdés, *Diálogo de Mercurio y Carón*; * Gracián, *Oráculo Manual y Arte de Prudencia* (ed. Walton); Huarte de San Juan, *Examen de Ingenios* (Austral); Luis Vives, *Dialogues* (trans. Watson); * Luis de León, *Poesías originales* (ed. Onís); Santa Teresa de Jesús, *Vida*; San Juan de la Cruz, *Obras*; Cervantes, *Novelas Ejemplares*; * *Don Quijote*; Lope de Vega, *Fuenteovejuna*, ed. Mitchell (Bell); * Calderón, *La Vida es Sueño*, *El Mágico Prodigioso*, and *El gran teatro del mundo*; Ruiz de Alarcón, * *La Verdad Sospechosa*; Quevedo, *La Vida del Buscón*; Góngora, *Obras poéticas* (ed. Foulché-Delbosc).

III. After 1700:—Ignacio de Luzán, *La Poética*; El P. Isla, *Fray Gerundio*; Feijóo, *Obras escogidas*; L. F. de Moratín, *Teatro selecto*; Espronceda, *Obras poéticas* (ed. Clásicos Castellanos); Núñez de Arce, *Poesías*; Campoamor, *Poesías*; Tamayo y Baus, *Un Drama nuevo*; Larra, * *Artículos escogidos*, ed. Marín (Bell); Fernán Caballero, *La Gaviota*; Pedro Antonio de Alarcón, * *El Sombrero de Tres Picos*; Benito Pérez Galdós, * *La Desheredada*; * *Ángel Guerra* and *Fortunata y Jacinta*; Valera, * *Pepita Jiménez*; Benavente, *Teatro selecto*; Unamuno, * *El Sentimiento Trágico de la Vida en los Hombres y en los Pueblos*; *Ensayos*, and * *La Agonía del Cristianismo*; Ortega y Gasset, * *Ensayos*; García Lorca, *Poesías selectas*; Carpentier, *Los Pasos Perdidos*.

Certain periods and books will be taken up each year as special subjects and one paper, at least, will be devoted to them.

Works marked with an asterisk are for special study.

History and Geography.—See Index.

Hispanic Library (Minto House)

This library is for the use of students in the Intermediate Honours and the Honours classes in Spanish.

RUSSIAN

Mr. WARD, Senior Lecturer; Dr. GREENE, Lecturer

Scientific Russian Course

Mr. WARD

This course is intended to give students sufficient knowledge of Russian to enable them to read technical and scientific matter in Russian. The class is open to graduates only and meets once a week for 3 terms at a time to be arranged.

Text-book:—D. Ward, *Russian for Scientists*.

Elementary Class

An elementary class will be held three times a week during the first term and four times a week during the second and third terms (three grammar classes and one class in reading and oral practice). The time of the class will be arranged to suit the majority of students. Usually, it is held at 5 p.m. No previous knowledge of Russian is required. The course is intended to give students a basic knowledge of Russian and also to prepare them for the First Ordinary course. Those who wish to continue into the First Ordinary course are advised to devote several hours of private study to the language each week in addition to attending the elementary class regularly.

Text-book:—N. F. Potapova, *Russian: an elementary course, I and II*.

Faculty of Arts

Recommended reading:—A. Semeonoff, *A New Russian Grammar*; S. C. Boyanus and N. B. Jopson, *Spoken Russian*; D. Ward, *Russian Pronunciation: a practical course*.

A written test will be arranged at the end of the year for those students who intend to enter the First Ordinary course.

First Ordinary Course

Entrance qualification: a pass in Russian on the higher standard in the Leaving Certificate or the Preliminary examination, or some equivalent evidence of proficiency. Non-graduation students will be admitted to the course with a pass on the lower standard in the Leaving Certificate or Preliminary Examination, or some equivalent evidence of proficiency.

Three classes and a tutorial meeting each week at times to be arranged.

The course includes written and oral exercises in translation and composition, essays in Russian and English, practice in spoken Russian and an outline of the history of Russia and its literature. Students will be required to obtain a detailed knowledge of the following prescribed texts:—

Selected lyrics of Pushkin (available in mimeographed form from the department); Pushkin, *Пиковая дама*; Lermontov, *Тамарь*; Gogol, *Шинель*.

Students will also be required to obtain a basic knowledge of the history of Russian literature, in particular the life and work of Pushkin, Lermontov and Gogol.

Recommended reading:—M. Baring, *Outline of Russian Literature*; D. S. Mirsky, *History of Russian Literature*; B. Pares, *A History of Russia*; P. Koval-evsky, *Histoire de Russie*; D. Ward, *Russian pronunciation: a practical course*.

Class examination dates: As announced in class.

DEGREE EXAMINATION

Three papers will be set:—

1. Essay in Russian.
2. Prose composition and unseen translation.
3. Prescribed texts and history of Russian literature.

There will also be a dictation test.

Second Ordinary and Intermediate Honours Courses

Entrance qualification:—a pass in the First Ordinary degree examination or some equivalent evidence of proficiency. For Intermediate Honours a first- or second-class certificate of merit in the First Ordinary course is also required.

Class hours:—Five meetings a week and a tutorial class at times to be arranged.

These two courses are given conjointly, the work being of a similar nature, though at a more advanced stage, to that of the First Ordinary course (q.v.). Candidates for Intermediate Honours are required to achieve a higher standard of performance than candidates for Second Ordinary.

A detailed knowledge of the following prescribed texts is required: Turgenev, *Взвешивая луг*, *Отцы и дети*; Dostoyevsky, *Бедные люди*, *Двойник*; Tolstoy, *Детство*; Chehov, *Дама с собачкой*, *Дом с мезонином*, and (Intermediate Honours only) *Три сестры*.

Students are also required to obtain a general knowledge of the life and work of Turgenev, Dostoyevsky, Tolstoy and Chehov and of the history of Russia in the nineteenth century, while supplementing their knowledge of the literature of the first half of the nineteenth century.

Class examination dates: As announced in class.

Courses of Instruction (Lang. and Lit.)

DEGREE EXAMINATION

Four papers will be set :—

1. Essay in Russian.
2. Prose composition.
3. Translation.
4. History and literature.

In addition there will be an oral test.

Honours Course

Honours may be taken in Russian as a principal language, with a classical or modern foreign language as a secondary language.

The entrance qualification for this class is:—a first- or second-class certificate of merit in the Intermediate Honours class.

Class hours:—Six to nine meetings a week, together with a tutorial class, at times to be arranged.

HONOURS CURRICULUM AND EXAMINATION IN RUSSIAN

After qualifying in the Intermediate Honours class, students will spend a further two years in the Department, viz. third year—Junior Honours; fourth year—Final Honours. The subjects of study are Russian literature, Russian civilisation, the Russian language and a special subject (see below).

Honours Examination

The subjects of examination for Honours in Russian are:—

1. Essay in Russian on some aspect of Russian literature, art, history, thought or language, or on a general subject.
2. Prose composition.
3. Unseen translation from Russian.
4. Russian literature to the nineteenth century.
5. Russian literature in the nineteenth century.
6. History and institutions of Russia.
7. History and structure of the Russian language, together with prescribed texts.
8. Special Subject: *either* (a) Comparative Slavonic Philology with special reference to Old Slavonic (Old Church Slavonic), with prescribed texts; *or* (b) Pushkin; *or* (c) The European contribution to Russian literature; *or* (d) The early history and institutions of the Slavs, with particular reference to the Eastern Slavs; *or* (e) Twentieth-century Russian literature; *or* (f) (for candidates submitting Russian with Turkish) a specified aspect of Russo-Turkish studies. In addition there will be an oral test.

A student who has previously graduated with first- or second-class Honours in another language may proceed, after one year's attendance at the Honours class in Russian, to the Honours examination in Russian. Such a candidate may be required in the year immediately preceding graduation in his first language to attend an Honours course in Russian and to take a corresponding paper in the Honours examination.

Faculty of Arts

In the case of students offering Russian with Turkish the Special Subject *must* be 8 (e), a course on which will be given in the Department of Turkish. In all other cases students *must* inform the Head of the Department not later than the third term of their second year which Special Subject they propose to take. Not more than *two* special subjects will be taught within the Department of Russian in any one Honours (Junior or Senior) year: thus—(a) or (d) and (b) or (c) or (e). Alternative (f) will be available in any year and will be taught in the Department of Islamic Studies.

It is recommended that during the Honours course at least two long vacations should be spent in residence with a Russian family, preferably abroad.

Prescribed texts.

Paper 4: Selected extracts from Gudzy, Хрестоматия по древней русской литературе; Obnorsky and Barhudarov, Хрестоматия по истории русского языка, часть 2-ая, выпуск 2-ой; A. V. Kokorev, Хрестоматия по русской литературе 18-ого века and a number of other texts available from the Department.

Recommended reading:—Gudzy, История древней русской литературы; Tschizhewskij, *Alttrussische Literaturgeschichte*; Adrianova-Peretts (Ed.) Слово о полку Игореве; Blagoi, Русская литература 18-ого века

Paper 7: Prescribed texts: Selected extracts from Gudzy, Хрестоматия по древней русской литературе; and Obnorsky and Barhudarov, Хрестоматия по истории русского языка, часть 2-ая, выпуск 2-ой.

Students should also study the following works: Matthews, *The Structure and Development of Russian*; Kuznetsov, Историческая грамматика русского языка—Морфология; Yakubinsky, История древне-русского языка; Chernykh, Историческая грамматика русского языка; Entwistle and Morison, *Russian and the Slavonic Languages*; Vinokur (tr. Millet), *La langue russe*; Vasmer, *Russisches etymologisches Wörterbuch*.

Paper 8: Prescribed texts: A. M. Selishev, Старославянский язык I, pp. 7-28 (these passages are available in photostat copies from the Department); N. A. Kondrashov, Славянские языки.

Students must also familiarise themselves with the grammar of Old Slavonic from one or more of the following: de Bray, *Guide to the Slavonic languages*; Diels, *Altkirchenslavische Grammatik*; Leskien, *Grammatik der altbulgarischen (altkirchenslavischen) Sprache*; Vaillant, *Manuel du vieux slave*, tome 1; Vondrák, *Altkirchenslavische Grammatik*; A. M. Selishev Старославянский язык.

Material for further study of the language and the comparative philology of the Slavonic languages will be found in: Braun, *Grundzüge der slavischen Sprachen*; Entwistle and Morison, *Russian and the Slavonic Languages*; Vaillant, *Grammaire comparée des langues slaves*; Vondrák, *Vergleichende slavische Grammatik*; N. van Wijk, *Les langues slaves*.

A list of recommended texts and commentaries for papers 5 and 6 will be given to students at the end of the Intermediate Honours year. Similar lists will be available for special subjects 8 (b), 8 (c), 8 (d), 8 (e).

SANSKRIT

Dr. WARDER, Lecturer

(a) Sanskrit Language and Literature

Elementary Class

This class, which will meet three days a week at 2 p.m., will prepare students for the Ordinary Course. Text-books:—Antoine, *Sanskrit Manual*, Part I; Macdonell, *Sanskrit Grammar for Students*; Eggeling, *Story of Nala*; Lanman, *Sanskrit Reader*.

Class examination dates: As announced in class.

Ordinary Course

Entrance qualification for this class:—Students must have attended the Elementary class and have reached a satisfactory standard in it or provide (by examination if necessary) evidence of their fitness to attend the class. Class hours:—Four days a week in autumn and spring and three in summer at 3 p.m. The work of the class consists of the systematic study of Sanskrit Grammar and translation from English into Sanskrit (text-books:—Antoine, *Sanskrit Manual*, Part II; Macdonell, *Sanskrit Grammar for Students*) and the interpretation of Sanskrit texts. (Apte, *Sanskrit-English Dictionary*, is recommended.) Literary history will be studied in connection with the texts prescribed, and students will be expected to acquire a general knowledge of the course of Sanskrit literature up to about A.D. 1200, and of the history of India in relation to the literature (text-books:—Winternitz, *History of Indian Literature*, Calcutta; and either Vol. III of the German edition, Leipzig, or Dasgupta and De, *History of Sanskrit Literature*, Calcutta; Basham, *The Wonder that was India*, Sidgwick and Jackson.)

Class examination dates: As announced in class.

DEGREE EXAMINATIONS

There will be three papers:—

1. Prescribed books.
2. Prose composition and grammar.
3. Unseen translation and the history of Sanskrit literature to A.D. 1200.

Prescribed books:—*Chāndogya Upaniṣad*, *adhyaīya* vi; Vararuci, *Ubhayā-bhisārikā*; Āśvaghoṣa, *Saundarananda*, i and iv; Kālidāsa, *Meghadūta* (ed. Hultzschn), 1-50; Siddha, *Upamitibhavadrapaṇcā Kathā* II.

Double Courses

A student who has passed the degree examination after the Ordinary Course, and has obtained a merit certificate in the work of the class, may complete a Double Course by attending the Honours class. The degree examination on the completion of this course will comprise the following subjects:—The texts prescribed for the Honours class attended; Vedic and Sanskrit grammar; Sanskrit prose composition; history of Sanskrit literature.

Honours Courses

Three days a week for two years at an hour to be arranged. The work of the class consists of (1) study of the prescribed texts, (2) practice in composition, and (3) lectures and discussions on the theories of poetics and of the drama.

Faculty of Arts

Recommended books:—Renou, *Grammaire Sanscrite*; Macdonell, *Vedic Grammar for Students, Vedic Reader*; Grassmann, *Wörterbuch zum Rig-Veda*; Monier Williams, *Sanskrit-English Dictionary, Sanskrit Manual*; Apte, *Sanskrit-English Dictionary*; De, *Sanskrit Poetics*; Kane, *History of Sanskrit Poetics*; Mankad, *The Types of Sanskrit Drama*; Konow, *Das Indische Drama*; Gupta, *Indian Theatre*.

The following courses will be arranged if required for Honours or if a sufficient number of students give in their names.

(b) Pāli, Prākṛit and Avestan

When required for Honours, classes will be arranged to meet twice weekly to study the grammar and prescribed texts of the second language selected by the student.

Recommended books:—Pāli: Geiger, *Pāli Literature and Language*; Mayrhofer, *Handbuch des Pāli*; A. P. Buddhadatta, *New Pāli Course, Higher Pāli Course*; Rhys Davids and Stede, *Pāli-English Dictionary*.

Prākṛit: Pischel, *Grammatik der Prakrit-Sprachen*; D. C. Sirkar, *A Grammar of the Prakrit Language*.

Avestan: Reichelt, *Awestisches Elementarbuch*.

(c) Indian Religion

There will be two half-courses (each of about thirty lectures), one on the Religion of the Indus Civilisation, Vedism and Hinduism and one on Ājivakism, Buddhism and Jainism.

Recommended books:—Dumézil, *Les dieux des Indo-Européens*; Macdonell *Vedic Mythology*; Renou, *Religions of Ancient India*; Hillebrandt, *Ritual-litteratur*; M. Bloomfield, *The Atharvaveda*; Bhandarkar, *Vaiṣṇavism, Śaivism and Minor Religious Systems*; Eliot, *Hinduism and Buddhism*; Basham, *History and Doctrines of the Ājivikas*; Schubring, *Die Lehre der Jainas*; Guérinot, *La Religion Djaṭna*; Jagmenderlal Jaini, *Outlines of Jainism*; Obermiller, *The Doctrine of Prajñā-pāramitā*; Suzuki, *Essays in Zen Buddhism Third Series Nos. II-IV*. Original texts and translations will be recommended during the course.

(d) Indian Philosophy

There will be two half-courses (each of about thirty lectures). The philosophical systems of the various religious sects will be studied, together with secular philosophy such as that of the Lokāyata schools and of the sciences and arts (including reference to the theories of poetics). Special attention will be paid to the history of logic.

Recommended books:—Relevant sections of the works of Eliot, Basham and Guérinot given under Indian Religion; Radhakrishnan, *Indian Philosophy*; *The History of Philosophy Eastern and Western*, vol. i (ed. Radhakrishnan); Johnston, *Early Sāṃkhya*; Garbe, *Sāṃkhya und Yoga*; Faddegon, *The Vaiśeṣika System*; Ui, *The Vaiśeṣika Philosophy*; Nyanatiloka, *Guide through the Abhidhamma-Piṭaka*; Stcherbatsky, *The Central Conception of Buddhism, Buddhist Logic*; Murti, *The Central Philosophy of Buddhism*; Randle, *Indian Logic in the Early Schools*; Ingalls, *Materials for the study of Navya-Nyāya Logic*; Ponniah, *The Śaiva Siddhānta Theory of Knowledge*. Original texts and translations will be recommended during the course.

(e) Indian History

The first half-course (about thirty lectures) will give an outline of the political, economic, social and cultural history of India and Ceylon from c. 2500 B.C. to A.D. 1336. Indian and Ceylonese historiography during this period will be surveyed.

Courses of Instruction (Lang. and Lit.)

The second half-course (about eight lectures plus weekly discussions or tutorials) will consist of the more detailed study of a special period to be selected by the student from the following:—...

1. 2500-700 B.C.
2. 700-200 B.C.
3. 200 B.C.-A.D. 200
4. A.D. 200-550
5. A.D. 550-950
6. A.D. 950-1336

Recommended books:—de la Vallée Poussin, *Indo-européens et Indo-iraniens, L'Inde aux temps des Mauryas, Dynasties et Histoire* (Cavaignac ed. *Histoire du Monde*, tomes iii, vi 1, vi 2); Renou, *La civilisation de l'Inde ancienne*; Wheeler, *The Indus Civilization* (Cambridge History of India Supplementary Volume); Piggott, *Prehistoric India*; "Bharatiya Vidya Bhavan" (ed. Majumdar); *The History and Culture of the Indian People*, vols. i-v (this work includes copious bibliographies for further reading and research); *A Comprehensive History of India*, vol. ii (ed. Nilakanta); Bose, *Social and Rural Economy of Northern India Cir. 600 B.C.-A.D. 200*; Maity, *Economic Life of Northern India in the Gupta Period*; Appādarai, *Economic Conditions in Southern India (A.D. 1000-1500)*; Jayaswal, *Hindu Polity, An Imperial History of India (Mañjuśrīmūlakalpa Rājavyākaraṇaparivarta)*; Kalhaṇa, *Rājatarangīni* (trans. Stein); Merutuṅga, *Prabandha-cintāmaṇi* (trans. Tawney); Dipavaṃsa (trans. Oldenberg); Mahānāma, *Mahāvāṃsa* (trans. Geiger); Kauṭilya, *Arthaśāstra* (trans. Shamasastri); Bāṇa, *Harṣacarita* (trans. Cowell and Thomas); Sircar, *Select Inscriptions*.

(f) Comparative Philology

There will be two half-courses (each of about thirty lectures). The first will include a review of the history of linguistic studies with some discussion of the principles of general linguistics (special attention being paid to Indian linguistics) and an introduction to comparative philology with special reference to the Indo-European languages. The second will consist of an outline of the phonetics, grammar and vocabulary of the Indo-European languages with special reference to Indo-Iranian.

Recommended books:—L. Bloomfield, *Language*; de Saussure, *Cours de linguistique générale*; Allen, *Phonetics in Ancient India*; Renou, *La grammaire de Pāṇini*; Brough, *Some Indian Theories of Meaning* (T.P.S. 1953); Meillet, *Introduction à l'étude comparative des langues indo-européennes*; Sturtevant, *The Hittite Language*; Burrow, *The Sanskrit Language*; Wackernagel and Debrunner, *Altindische Grammatik*; Mayrhofer, *Handbuch des Pāli, A concise Etymological Sanskrit Dictionary*; Bloch, *L'Indo-aryen; La formation de la langue marathe*.

HONOURS CURRICULUM AND EXAMINATIONS IN SANSKRIT

Subjects of Examination.

(1) Sanskrit Language and Literature: prescribed books (two papers), unseen translation (one paper), grammar and composition (one paper), History of Indian Literature from the R̥gveda to the thirteenth century A.D. (one paper). The History of Literature will include Middle Indian Literature, especially in its relationship to Sanskrit Literature.

(2) One of the following languages (two papers):—(a) Pāli; (b) Prākṛit; (c) Avestan; the examination including in each case prescribed texts, grammar and questions on literature.

(3) One of the following Special Subjects (two papers):—(a) Indian Religion; (b) Indian Philosophy; (c) Indian History; (d) Comparative Philology.

Faculty of Arts

In the diploma granted to a candidate awarded Honours in Sanskrit the additional language and the Special Subject taken by him will be specified.

Prescribed books.

Sanskrit: *Rgveda*, i, 1, 41, 51, 115, 149, 154, 160, ii, 12, 15, 25, 33, v, 24, 84, vi, 27, vii, 18, 49, 61, 71, 103, viii, 48, x, 14, 71-2, 85, 90, 95, 108, 121, 124-5, 127, 129, 173, 190, 191; *Kaṭṭaliya Arthaśāstra*, i, 2-4, ii, 1-12, vi, xv (ed. Gaṇapati Śāstri); Bhāsa, *Svapnavāsavadatta*; Bhāmaha, *Kāvya-lāṅkāra*; Bhāravi, *Kirāt-ārjuniya*, i, with Mallinātha's commentary; Amaru, 15-50 (ed. Simon); Bhavabhūti, *Uttararāmacarita*, i and ii; Bāṇa, *Kādambarī* (Poona ed.), 136-164; Bodhāyana, *Bhagavadajjuka*.

Pāli: *Dīgha Nikāya*, *Poṭṭhapāda Suttanta*; *Suttanipāta*, *Cūlavagga*; *Jātaka*, No. 543 (*Bhūridatta Jātaka*) with the *Atthavannanā*.

Prākṛit: Jacobi, *Ausgewählte Erzählungen in Māhārāshṭrī*, Nos. I, III, VIII; *Sattasai*, 1-10, 375-85, 445-54; Pravarasena, *Setubandha*, vii; Haribhadra, *Dhūrtākhyāna*; Rājaśekhara, *Karpūramañjarī*, i.

Avestan: Texts in Reichelt, *Avesta Reader*.

HEBREW AND ARAMAIC

Rev. PROFESSOR PORTEOUS and Rev. PROFESSOR BARR

Elementary Hebrew Course

On Mon. and Thurs. at 2 during three terms. This class prepares students for entering the Junior Hebrew course (though it is not essential for admittance to that class) and also for the entrance examinations of the various churches. It does not qualify for admission to the Senior (or Graduation) Hebrew course.

Text-book:—A. B. Davidson, *Introductory Hebrew Grammar*.

Junior Hebrew Course

Mon. Tues., Thurs. and Fri. at 10. This class prepares students for entering the Senior (or Graduation) Hebrew course. The class hours will be devoted mainly to the study of Hebrew grammar and the reading of easy prose and verse. There will be regular home exercises. The terminal examinations will include questions on Hebrew History and Literature based on prescribed reading.

Senior (or Graduation) Hebrew Course

Three days a week at 9, and two additional meetings at times to be arranged. Intending students who have not attended the Junior Hebrew course or who, having attended it, have not reached a satisfactory standard will be examined in the whole of the grammar (Davidson, *Introductory Hebrew Grammar*), and their ability to read simple Hebrew prose and verse. Two hours a week are occupied with the critical study of selected portions of the historical, prophetic and poetical books of the Old Testament. These vary from year to year, and always comprise a considerable part of the books prescribed for the Ordinary degree examination. Two hours a week are devoted to lectures on the history and literature of Israel. On one day a week a tutorial class is held for syntax, unseen translation and prose composition. There are weekly exercises in prose composition.

Class examination dates: As announced in class.

Honours Hebrew Course

An Honours Hebrew class meets three times a week. A student who has passed the degree examination after the Senior (or graduation) course may complete a double course by attending this Honours class and sitting the Intermediate Honours examination, but the standard for a pass will not be as high

Courses of Instruction (Lang. and Lit.)

as for Intermediate Honours. It is mainly devoted to the study of some of the more difficult books of the Old Testament. There will be regular practice in advanced prose composition. Lectures will be given on Hebrew literature (biblical and post-biblical), and, as required, on the comparative grammar of the Semitic languages. A special course in post-Biblical Hebrew (Mishna and Midrash and Mediaeval literature) to meet twice weekly in autumn and spring may be arranged.

Aramaic

A class for the study of Aramaic meets twice a week during the autumn and spring terms at an hour to suit intending students. East Aramaic (Syriac) and West Aramaic (Chaldee) will be taken up in alternate years, the sequence being, however, subject to modification. For 1959-60—Syriac and the Gospel of Mark (Peshitta).

DEGREE EXAMINATIONS

The Ordinary degree examination consists of three papers of two hours each. One is on the prescribed texts; translation at sight, prose composition, history, literature and grammar form the main subjects of the other two. The Second Ordinary (Intermediate Honours) examination consists of four papers of two hours each: (1) prescribed texts; (2) unprepared translation and grammar; (3) prose composition; (4) a general knowledge of Hebrew history and literature, with special attention to the books studied.

FIRST COURSE.—1. Questions in grammar. 2. Translation into Hebrew prose. 3. *Exodus*, i-iii; *Leviticus*, i-iii; 1 *Samuel*, iii-iv, ix-x; *Micah*; *Zephaniah*; *Haggai*; *Psalms*, xlii-lvi. 4. A short passage from an historical book to translate at sight. 5. History of Israel from the beginnings to 586 B.C. (Oesterley and Robinson, *A History of Israel*, vol. i, or other standard history). 6. Literature: Introduction to the Historical Books (Joshua, Judges, Samuel and Kings) and the Minor Prophets.

SECOND COURSE.—1. More advanced grammar, including syntax. 2. Translation into Hebrew prose. 3. 1 *Samuel*, with Driver's *Notes on the Hebrew Text*; *Jeremiah*, i-xx, or *Job*, i-xiv; *Psalms*, bk. ii (or equivalent portion); *Mishnah*, *Yoma*, or an equivalent portion of Halper's *Post-biblical Hebrew Literature*. 4. Unseen passages, pointed and unpointed, from historical books. 5. A general knowledge of Hebrew history and literature, with special attention to the books studied.

For the subjects of examination in Hebrew for Honours in Semitic Languages, see Index, "Semitic Languages".

ARABIC

Rev. Dr. MONTGOMERY WATT, Reader; and Dr. CACHIA, Lecturer

Elementary Class

Mon., Tues., Thurs. and Fri. for three terms at 2. Text-book:—Ziadeh and Winder, *Introduction to Modern Arabic*. Most of the summer term will be devoted to the study of colloquial Arabic (Egyptian) provided there is a demand. Text-book:—Gairdner, *Egyptian Colloquial Arabic*.

Class examination dates, see p. 472.

Ordinary Course

Mon., Tues., Thurs. and Fri. for three terms at 3, together with one tutorial class each week. A preliminary examination is not required for attendance at this class, but students who have not attended the Elementary class must give evidence of a knowledge of Arabic grammar, and of ability to read a simple

Faculty of Arts

Arabic text (see p. 7). The work of the class consists of (1) translation from classical Arabic and from modern literary Arabic, (2) translation into modern literary Arabic, (3) the study of Islamic culture, viz. the religion of Islam, Islamic history and mediæval and contemporary Arabic literature, (4) the study of Arab grammatical theory. Under the heading of Islamic culture students are expected to be familiar with: (a) the general features of the religion of Islam, including the development of Islamic thought and the present condition of Islam; (b) the general course of Islamic history with a more detailed knowledge of the period to the death of 'Ali; (c) early Arabic poetry, the Qur'ān, and certain outstanding figures in modern Arabic literature. Books in English on these subjects will be recommended in class, and guidance will be given by lectures and tutorial instruction. For preliminary reading the following are recommended: L. E. Browne, *The Prospects of Islam*; H. A. R. Gibb, *Mohammedanism*. Students proceeding to Intermediate Honours should possess a copy of Hava's *Arabic-English Dictionary*.

Class examination dates see p. 472.

DEGREE EXAMINATIONS

There will be three papers of two hours each: (1) unseen translation from and into Arabic; (2) Islamic culture and Arab grammatical theory, with *al-Ajurrūmiyah*; (3) translation from prescribed books. Candidates who have obtained a first-class merit certificate in the terminal examinations of the class may in certain cases be exempted from the paper on the set books.

Prescribed books:—Fischer, *Arabische Chrestomathie*, selections; Rabin, *Arabic Reader*; Qur'ān, Surahs, 1, 12, 19, 53, 73, 74, 80-114; aṭ-Ṭabari, Commentary on Surah 85; *Alf Laylah*, story of the Ebony Horse: Nöldeke, *Delectus*, selected poems. In special circumstances a candidate may be allowed to substitute a simple philosophical text for one or more of the above books.

Honours Course

Mon., Tues., Thurs. and Fri. for three terms at an hour to be arranged, together with one tutorial class each week. A student who has passed the degree examination after the Ordinary course may complete a double course by attending this class and sitting the Intermediate Honours examination, but the standard for a pass will not be so high as for Intermediate Honours. The work of the class is a continuation of that of the Ordinary course in the four aspects enumerated; and there will also be practice in reading manuscripts. The work will normally be of Intermediate Honours and Honours standard in alternate years, but it will usually be possible to arrange it to suit the needs of students. The study of Islamic culture will normally be distributed over the two years as follows:—

Year A: (a) Islamic religion and thought with more detailed treatment of certain later mediæval developments; (b) history of the Umayyad and 'Abbasid caliphates; (c) Arabic literature with special attention to the period 661-1258 (omitting Spain).

Year B: (a) Islamic religion and thought with detailed treatment of certain modern developments; (b) history of the Middle East since 1258; (c) Arabic literature with special attention to the period since 1258 and to the literature of Muslim Spain.

INTERMEDIATE HONOURS EXAMINATIONS

(Books marked with an asterisk (*) are for more detailed study)

Four papers will be set:—

1. Prescribed books.
2. Unprepared translation.
3. Prose composition.
4. Islamic culture (for 1960, year A; for 1961, year B).

Courses of Instruction (Lang. and Lit.)

Prescribed books for 1960:—* al-Bukhārī, *Ṣaḥīḥ*, selections; * al-Ghazālī, *al-Munqidh min al-Ḍalāl*, selections; * al-Bayḍāwī, Commentary on Surahs, 2, vv. 1-6 and 3, vv. 30-64; aṭ-Ṭabarī, Commentary on the same; * al-Mutanabbī, selections; * *Mu'allaqah* of Labīd; at-Tibrizī, Commentary on the above; * al-Hamadhānī, *Maqāmāt*, selections; Ṭāhā Ḥusayn, *al-Ayyām*, part I; * *Qur'ān*, selected early Medinan Sūrah's; al-Mas'ūdī, *Murūj adh-Dhahab*, ch. 114, vol. vii, pp. 1-102; *Alf Laylah*, story of Qamar az-Zamān and selected stories about Hārūn ar-Rashid. Instead of the last two items students may offer the following: Aḥmad Shawqī, *Maṣra' Kilyūbātrah*; Muḥammad Haykal, *Muhammad*, Introduction; Maḥmūd Taymūr, selected short stories.

Prescribed books for 1961:—* Ibn Khaldūn, *Prolegomena*, selections; * Ibn Qutaybah, *Kitāb ash-Shi'r*, Introduction; * al-Bayḍāwī, Commentary on Surah 32; aṭ-Ṭabarī, Commentary on the same; * az-Zamakshari, *al-Mufaṣṣal*, selections; * *Mu'allaqah* of Imru'ul-Qays; at-Tibrizī, Commentary on the above; * al-Ḥariri, *Maqāmāt*, selections; Aḥmad Amin, *Fajr al-Islām*; * *Qur'ān*, selected later Medinan Sūrah's; *Riwāyāt al-Aghānī*, i, pp. 1-99; *Alf Laylah*, story of Sinbad; Ibn Baṭṭūṭah, ii, pp. 1-16, 93-131, 421-440. Instead of the last three items students may offer the following: Aḥmad Shawqī, *Maṣra' Kilyūbātrah*; Jibrān, *The Pilgrim*; 'Aqqād 'Alā' l'Athir; Tawfiq al-Ḥakim, *Ahl al-Kahf*.

Islamic Culture

The following courses constitute part of the work for Honours in Arabic and will be given when required. Each will consist of about twenty hours devoted either to lectures or to tutorial instruction.

1. The Career of Muḥammad.
2. Islamic Theology.
3. Modern Arabic literature.
4. Muslim Spain.
5. The Khawārij under the Umayyads.
6. The First Three Crusades. (In the History Department.)
7. Egyptian Nationalism, 1879-1939.
8. Islamic Art and Archæology. (In the Fine Art Department.)
9. Islamic Law.

For Honours Curriculum and Examinations in Semitic Languages;
Honours Curriculum and Examinations in Arabic, Persian and Turkish;
Diploma in Islamic Studies;
Islamic History;

See Index.

Students intending to read for Honours or Intermediate Honours in Arabic, Persian or Turkish are recommended to take the course in Islamic History in their first year. It may not be taken as an outside subject by candidates for Honours in Arabic, Persian or Turkish.

PERSIAN

MR. ELWELL-SUTTON, Lecturer

Elementary Class

Mon., Tues., Thurs. and Fri. at 11. Text-books:—L. P. Elwell-Sutton *Elementary Persian Grammar* (mimeo'd); Iranian Min. of Education, *Jogrāfiyā-e Irān barā-e Sāl-e Sheshom-e Dabestān*; Kuhi Kermāni, *Pānzdah Afsānē-e Rostā'i*. Recommended for general reading:—Donald Wilber, *Iran, Past and Present*; L. P. Elwell-Sutton, *Guide to Iranian Area Study*.

Class examination dates: As announced in class.

Faculty of Arts

Ordinary Course

Mon., Tues., Thurs. and Fri. for three terms at 10, with one tutorial class each week. A preliminary examination is not required for attendance at this class, but students who have not attended the Elementary class must give evidence of a knowledge of Persian grammar and of ability to read a simple Persian text. The work of the class consists of: 1. Translation and study of prescribed texts; 2. Written and oral exercises in translation and composition; 3. Grammar, syntax, calligraphy, etc.; 4. The political and cultural history of twentieth-century Persia, including some knowledge of the general historical background.

Class examination dates: As announced in class.

DEGREE EXAMINATIONS

There will be three papers of two hours each:—

1. Translation from prescribed texts.
2. Unseen translation from and into Persian.
3. History and literature, including questions on grammar and commentary on prescribed books.

Prescribed books:—Sa'di, *Golestān* (ed. Forughī), Books I and II; Mahd Hamidi (ed.), *Daryā-e Gouhar* (vol. i and iii, selections); Abu Sa'id Gardizi *Zein al-Akhbār* (ed. M. Qazvini) (selections).

Recommended for general reading:—L. P. Elwell-Sutton, *Modern Iran*; Sir Percy Sykes, *History of Persia*, especially vol. ii; E. G. Browne, *Literary History of Persia*, especially vol. ii; M. Ishaque, *Modern Persian Poetry*; A. A. Hekmat, *Glimpses of Persian Literature*.

Honours Course

Mon., Tues., Thurs. and Fri. at 9. A student who has passed the degree examination after the Ordinary course may complete a double course by attendance on this class and appearance at the Intermediate Honours examination, but the standard for a pass will be lower than for Intermediate Honours. The class work will be a continuation of that of the Ordinary Course, but there will be progressively greater emphasis on the classical Islamic literature and Islamic history of Persia. Some knowledge of pre-Islamic Persian history and culture will also be required, but this will not involve any knowledge of pre-Islamic Persian languages. The study of Persian history and culture will normally be distributed over two years with the dividing point at A.D. 1500.

Class examination dates: As announced in class.

INTERMEDIATE HONOURS EXAMINATION

There will be four papers:—

1. Translation from prescribed texts, with questions on language and subject-matter.
2. Translation from unseen texts.
3. Translation into and free composition in Modern Persian.
4. Persian History and Literature.

Prescribed books for 1959-60:—*Divān-e Ostād Manuchehri* (ed. M. Dabir-e Seyāqi), Qas. 1-20; Nezāmi, *Leilā va Majnun* (ed. Vahid Dastgerdi), pp. 57-92; Nezāmi Aruzi, *Chahār Maqālē* (Books I and II); *Majmū'ē-e āsār-e Mirzā Malkom Khān* (ed. Tabātabā'i), pp. 1-52; M. A. Jamāl-zādē, *Yeki bud yeki nabud* (the stories *Fārsi sheker ast*, *Rajol-e seyāsi* and *Vilān ad-Doulé*).

Prescribed books for 1960-61:—Ferdousi, *Shāhnāmē* (ed. Pizzi), sections I-VI; Nezām al-Molk, *Seyāsatnāmē*, chaps. I-VI; Hāfez, *Divān* (ed. Qazvini), nos. 1-30; Mirzā Mohammad Khalil Mar'ashi Safavi, *Majma' at-tavārikh* (ed. A. Eqbāl), pp. 1-51; Sādeq Hedāyat, *Sé qatrē khun* (the stories *Sé qatrē khun*, *Lālē* and *Suratakāhā*).

Courses of Instruction (Lang. and Lit.)

The above books will be prescribed in alternate years until further notice.

For the Honours Curriculum and Examinations in Arabic, Persian and Turkish, see Index, "Persian".

TURKISH

Mr. WALSH, Lecturer

Elementary Class

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged.

Text-books:—Ettore Rossi, *Manuale di Lingua Turca*, or H. H. Kreider, *First Lessons in Modern Turkish*; P. Wittek, *Turkish Reader*.

Ordinary Course

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged.

A preliminary examination is not required for admission to this course, but students who have not attended the Elementary class must demonstrate a knowledge of Turkish grammar and be able to read a simple Turkish text. The work of the class will consist of:—

1. translation from modern Turkish texts in either (a) the Roman characters only, or (b) both Roman and Arabic characters. (Students who intend to proceed to the Honours class in Turkish must choose the text in Arabic characters given in the option);
2. translation into modern literary Turkish;
3. study of twentieth-century Turkey and of the Islamic background to Turkish political and cultural history. The latter is designed to give the student a general knowledge of Islam and its institutions, with particular reference to Ottoman history and the rise of the Turkish Republic. Lectures and tutorial instruction will be provided, in the course of which reading-matter on these subjects will be recommended. For a preliminary survey, the following work may be consulted: W. Barthold, *İslâm Medeniyeti Tarihi*.

DEGREE EXAMINATIONS

There will be three papers of two hours each:—

1. Translation from prescribed texts, with questions on language and subject-matter.
2. Translation from unseen Turkish texts.
3. Translation into modern literary Turkish, and questions on Turkish history and institutions.

Prescribed books:—Jean Deny, *Grammaire de la langue turque (dialecte Osmanli)*; Reşat Nuri Güntekin, *Anadolu Notları*, vol. 1; and either Hikmet Feridun, *Bugün de diyorlar ki . . .*, or Ahmet Refik, *Sokollu* (Arabic characters).

Honours Course

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged.

A student who has passed the degree examination after the Ordinary Course may complete a double course by attending this class and sitting the Intermediate Honours examination, but the standard for a pass will be lower than for Intermediate Honours. Class work will be a continuation of that of the Ordinary Course, except that under (3) the principal emphasis will be laid upon Ottoman history and institutions. Lectures will be given on the history of Ottoman literature, and texts will be studied with a view to historical grammar. The work will normally be of Intermediate Honours and Honours standard in alternate years, but it will usually be possible to arrange it to suit the needs of students.

Faculty of Arts

INTERMEDIATE HONOURS EXAMINATION

Four papers will be set:—

1. Translation from prescribed texts, with questions on language and subject-matter.
2. Translation from unseen texts.
3. Translation into modern Turkish.
4. Ottoman history and institutions.

Prescribed books:—Ismail Habib Sevük, *Tanzimattanberi Edebiyat Tarihi*, 2 vols. (The examination will be set from the anthology (vol. 2) only, but students will be expected to have read vol. 1.) Mehmet Neşri, *Kitab-ı-Cihan-nüma*; Halide Edip, *Sinekli Bakkal*; Ahmet Cevdet, *Tarih*, vol. i, pp. 1-194.

For the Honours Curriculum and Examinations in Arabic, Persian and Turkish, see Index, "Turkish".

URDU

REV. HAROLD SPENCER, Lecturer

Elementary Class in Urdu

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged. Text-books:—J. T. Platts, *Hindustāni Grammar* (omit pars. 68-134); Graded texts including Nazir Ahmad, *Muntakhab ul Hikāyāt* (Nos. 1-40). For reference:—T. Grahame Bailey, *Teach Yourself Urdu*.

Elementary Class in Hindi

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged. Text-books:—H. C. Scholberg, *Concise Grammar of the Hindi Language*; S. H. Kellogg, *A Grammar of the Hindi Language*, pp. 1-80 (1938 ed.); Graded texts including *Sādhāran Hathiyār* (Mōgā Series 4).

Ordinary Course

Mon., Tues., Thurs. and Fri. during the three terms at an hour to be arranged. A preliminary examination is not required for admission to this course, but students who have not attended the Elementary class must show a knowledge of Urdu Grammar and be able to read a simple Urdu text. The work of the class will consist of (1) unseen translation from and into Urdu; (2) translation from the prescribed texts; (3) free composition; (4) study of Urdu Grammar; and (5) the history of Muslim India with special reference to the period from 1700, and the history of Urdu literature in broad outlines.

DEGREE EXAMINATIONS

There will be three papers of two hours each:—

1. Translation from prescribed texts with questions on their language and subject-matter.
2. Translation from unspecified texts. translation from English, free composition.
3. Questions on history, literature and grammar.

Text-books:—J. T. Platts, *Hindustāni Grammar* (entire book); Mir Hasan, *Masnawī* (selections); M. Husain Azād, *Nasihāt ka karn phūl*; A. Abbās Husaini, *I.C.S.*

Intermediate Honours Course

Before commencing this course, students must either have successfully completed the Elementary Course in Hindi or otherwise have satisfied the lecturer that they have sufficient knowledge of Hindi to profit from the course.

Mon., Tues., Thurs. and Fri. at an hour to be arranged. A student who has passed the degree examination after the Ordinary course may complete a double course by attending this class and taking the Intermediate Honours examination, but the standard for a pass will not be so high as for Intermediate Honours. The class work will be a continuation of that of the Ordinary class with greater emphasis on history and literature.

INTERMEDIATE HONOURS EXAMINATION

Four papers will be set:—

1. Prescribed books.
2. Unseen translation from Urdu.
3. Translation from English and free composition.
4. Questions on (a) Urdu Literature, (b) Islam, (c) history of Muslim India with special reference to the period from A.D. 1000 to A.D. 1700.

Text-books:—Mir Amman, *Bāgh-ō-Bahār* (selections); M. Ghālib, *Urdū-i-Mu'allā* (part 2); M. Husain Azād, *Ab-i-Hayāt* (pp. 1-67, 1954 edn., for study of the text; other passages will be referred to in connection with the development of the Urdu language); Shibli Nu'manī, *al Kalām*; Muhammad Iqbāl, *Bāng-i-Darā* (selections); M. M. H. Ruswā, *Sharifzāda*.

HONOURS CURRICULUM AND EXAMINATIONS IN SEMITIC LANGUAGES

Regulations.

Either Hebrew or Arabic may be taken as primary language, with the other as secondary. A candidate must pass the Intermediate Honours examination in both primary and secondary languages. It is essential that candidates, if not already familiar with one of these languages, *begin the study of the one which they select as primary in their first academic year*, as it is impossible for such students to reach an Honours standard with less than four years of continuous study. Candidates are advised that a working knowledge of German is indispensable for the advanced study of the Semitic languages.

Curriculum.

The following is an outline of the curriculum suggested, according as the candidate selects (a) Hebrew or (b) Arabic as his principal language:—

1st Year:

(a) Elementary or, preferably, Junior Hebrew; and the two subjects outside the Honours Group. (b) Elementary Arabic; and the two subjects outside the Honours Group.

2nd Year:

(a) Hebrew (Ordinary); and Elementary Arabic. (b) Arabic (Ordinary); and Elementary Hebrew; both sets taking in addition one of the two special subjects within the Honours Group.

3rd Year:

(a) Honours Hebrew; and Arabic (Ordinary). (b) Honours Arabic; and Hebrew (Ordinary); both sets taking in addition the second special subject within the Honours Group.

4th Year:

(a) and (b) Honours Hebrew and Honours Arabic.

Subjects of Examination.

1. Translation into English from prescribed books in Hebrew (biblical and post-biblical) and Arabic.
2. Translation of passages in prose and poetry from books other than those prescribed.
3. Prose composition in Hebrew and Arabic.

Faculty of Arts

4. A general knowledge of Hebrew history and literature to the close of the Talmud, and of Arabic history and literature to the end of the Abbāsid period, with a more minute knowledge of the authors and books prescribed.
5. Two of the following special subjects:—(a) Syriac; (b) Aramaic; (c) Comparative Grammar of the Semitic languages; (d) Life of Muhammad and composition of the Qur'ān; (e) Islamic theology; (f) Modern Arabic literature.

Prescribed texts.

HEBREW AS PRIMARY LANGUAGE.—(1) 1 and 2 *Samuel*, with Driver's *Notes on the Hebrew Text*; (2) *Jeremiah*, i-xx; (3) *Psalms*, bk. ii (or equivalent portion); (4) *Job*, i-xiv; (5) *Leviticus*, xvi, xix, xxiii, xxv; (6) *Mishnah, Yoma*, i-v (ed. Strack) and *Aboth*; (7) Maimonides, *Moreh Nebukim* (selections), pp. 9-37; Maimonides' Preface to the *Moreh Nebukim*; (8) B. Harper's *Post-Biblical Hebrew Literature*, i-v, xiv, xviii, xxi.

HEBREW AS SECONDARY LANGUAGE.—As for the Ordinary degree, Second Course.

ARABIC AS PRIMARY LANGUAGE.—As for Honours in Arabic with Persian, etc. as secondary language (see below).

ARABIC AS SECONDARY LANGUAGE.—As for the Intermediate Honours examination.

Special Subjects.—(a) Syriac:—*Gospel of Mark* (Peshitta) and Roediger's *Chrestomathia Syriaca*, Extracts ix and x, pp. 29-39. (b) Aramaic:—Biblical Aramaic; *Genesis* (extracts) and *Jonah* as in Merx's *Chrestomathia Targumica*. (c) Comparative Semitic grammar:—Class lectures; and Wright's *Comparative Grammar of the Semitic Languages*. (d) Life of Muhammad and composition of *The Qur'ān*; Montgomery Watt, *Muhammad at Medina*; Bell, *Introduction to the Qur'ān*; (e) Islamic Theology:—MacDonald, *Muslim Theology*; Lammens, *Islam*; Wensinck, *The Muslim Creed*. (f) As C (1) on p. 364.

HONOURS CURRICULUM AND EXAMINATIONS IN ARABIC, PERSIAN AND TURKISH

Regulations.

Honours may be taken with Arabic as primary language, and Latin, Greek, Persian, Spanish, Turkish or Urdu as secondary language, or with Persian as primary language and Arabic as secondary language, or with Turkish as primary and Arabic as secondary language. A candidate must pass the Intermediate Honours examinations in both primary and secondary languages (for the special regulations where Spanish is the secondary language, see Index, "Spanish"). Candidates, other than those taking Arabic with Spanish, will be required to obtain class certificates in the Ordinary class of a third Oriental language, but the Head of the Department may waive part of the class work for students taking the class for this purpose only. The third language may be Turkish or Urdu for those taking Arabic with Persian or Persian with Arabic. It must be Persian for those taking Arabic with Turkish, or Turkish with Arabic, or Arabic with Urdu. Where possible, candidates are expected to spend six months at a university or other approved institution in a country where the primary language is spoken; e.g. in the case of the cooler climates, from June of the second year to the following December.

Curriculum.

Where both the primary language (P) and the secondary language (S) have to be commenced after admission, the following curriculum is advised:—

1st Year:

Elementary P; Elementary S; first outside subject; Islamic History.

2nd Year:

Ordinary P; Ordinary S; second outside subject.

3rd Year:

Intermediate Honours P and S; first special subject.

4th Year:

Honours P; second special subject.

Honours Examinations

The following papers, of three hours each, will be set in the final examination:—

1. and 2. Translation from prescribed books.
3. Unseen translation.
4. Prose composition.
5. Islamic (or, in the case of Turkish, Ottoman) History and Institutions.
6. Literature.
7. and 8. Special Subjects.

Prescribed books.

ARABIC: Those set for the Intermediate Honours examination in 1960 together with Ibn Hishām, *Sīrah*, pp. 103-333; aṭ-Ṭabari, *Ta'rikh*, i, pp. 1123-1242; Ibn Ṭufayl, *Ḥayy b. Yaqẓān*; al-Kindi, *Apology*; aṭ-Ṭabari, *K. ad-Dīn wa-'d-Dawlah*.

PERSIAN: Those set for the Intermediate Honours examination together with Sa'id Nafisi, *Ahvāl va Ash'ār-e . . . Rudagi*, vol. iii, pp. 972-1112 (students will also be expected to have read vols. i and ii); Nāser-e Khosrou, *Safarnāmeh*; *Kholāsē-e Masnavi* (ed. Foruzānfar); Mohammad, Tāher Vahid Qazvini, *Abbās-nāmeh* (ed. E. Dehgān); *Kolliyāt-e Mosavvar-e Eshqi* (ed. A. A. Salimi), esp. *Adabiyāt-e Jadid*.

TURKISH: Mustafa Tevfik, etc., *Türk Edebiyatı Nümuneleri*; E. J. W. Gibb, *History of Ottoman Poetry*, vol. vi; Asım Ef., *Tarih*, vol. i, pp. 1-55; Na'ima Ef., *Tarih*, vol. ii, pp. 342-450; Katib Çelebi, *Mizan-ül-hakk*; Mir Ali Sir Neva'i, *Muhakemet-ül-lügateyn*; Refik Halit, *İstanbul Bir Yüzü*; Hüseyin Rahmi, *Tünelden İlk Çıkış*.

SPECIAL SUBJECTS. (The portions of the texts with which the student is expected to be familiar will be indicated in class).

A. The Career of Muhammad.

Texts: Ibn Hishām, *Sīrah*; Ibn Abi Dāwūd, *K. al-Maṣāḥif* (in Jeffrey, *Materials for the History of the Text of the Qur'ān*).

Books recommended: Montgomery Watt, *Muhammad at Medina*; Bell, *Introduction to the Qur'ān*.

B. (1) Islamic Theology.

Texts: selected creeds; al-Ghazālī, *al-Munqidh*.

Books recommended: MacDonald, *Muslim Theology*; Wensinck, *The Muslim Creed*; Montgomery Watt, *Free Will and Predestination in Early Islam*.

(2) Sufism.

Texts: al-Qushairi, *ar-Risāla* (Arabic); Sanā'i, *Hadiqat al-Ḥaḥiqqa* (Persian); Jāmi, *Manṭiq at-Tair* (Persian); al-Ghazālī, *al-Iḥyā* (selections) (Arabic).

Faculty of Arts

Books recommended: R. A. Nicholson, *The mystics of Islam*; A. J. Arberry, *Sufism: an account of the mystics of Islam*; Qāsem Ghani, *Tārīkh-e Tasavvof dar Irān*; al-Hujwiri, *Kashf al-Mahjūb* (trans. R. A. Nicholson).

C. A literary subject.

(1) *Modern Arabic Literature.*

Texts: available works of Ṭāhā Ḥusayn, Tawfiq al-Ḥakīm, Aḥmad Amin, Muḥammad Haykal.

(2) *Modern Turkish Verse.*

Texts: Baki Süha Ediboğlu, *Türk Şiirinden Örnekler* (1920-1944). Yahya Kemal Beyath and Faruk Nafiz Çamlıbel, *Works*.

Books: Köprülüzade Mehmet Fuat, *Bugünkü Edebiyat*.

(3) *Modern Persian Fiction.*

Texts: Available works of Mohammad Ali Jamāl-zādē, Sādeq Hedāyat and Sādeq Chubak.

Books recommended: Rashid Yāsemi, *Adabiyāt-e Mo'āser*; Sa'id Nafisi (ed.), *Shāh-kārhā-e Nasr-e Fārsi-e Mo'āser*; Mahdi Hamidi (ed.), *Daryā-e Gouhar*.

D. Muslim Spain.

Text: al-Himyari, *Kitāb ar-Rawḍ*.

Books recommended: Levi-Provençal, *La Civilisation Arabe en Espagne, Histoire de l'Espagne Musulmane*.

E. A subject from mediæval or early modern history.

(1) *The Khawārij under the Umayyads.*

Texts: aṭ-Ṭabari; Sahir al-Qalamāwi, *Adab al-Khawārij*.

Book recommended: Wellhausen, *The Arab Kingdom and its Fall*.

(2) *The First Three Crusades.* (Details will be announced later.)

(3) *Feudalism in Islam and the Ottoman Empire.*

Texts: 'Ayn 'Alī, *Kavanin-i Al-i Osman*; Katib, Çelebi, *Düstur al-'aml*.

Books: Alphonse Belin, *Étude sur la propriété foncière en pays musulmans, et spécialement en Turquie (Rite Hanéfite)*; JA., Sér. V, tome xviii (1861), pp. 390-431, 477-517; tome xix (1862), pp. 156-212, 257-358; Alphonse Belin, *Du régime des fiefs militaires dans l'Islamisme et principalement en Turquie*, JA., Sér. VI, tome xv (1870), pp. 187-301. Ömer Lütfi Barkan, *Osmanlı İmparatorlugunda Zirat Ekonominin Hukukt ve Mali Esasları*.

(4) *The Mongols in Persia.*

Texts: Ata Malik i Juwayni, *Ta'rikh-i Jahān Gushāy*; Rashid ad-Din Fazlollah, *Jāmi' at-Tavārikh* (eds. Quatremère and Blochet).

Books recommended: Henry H. Howorth, *History of the Mongols*, part iii; C. D'Ohsson, *Histoire des Mongoles*, vols. iii and iv; B. Spuler, *Die Mongolenzeit* and *Die Mongolen in Iran*.

F. A subject from recent history.

(1) *Egyptian Nationalism, 1879-1939.*

Texts: al-'Aqqād, *Sa'd Zaghlūl*; 'Abd ar-Raḥmān ar-Rāfi'i, *Fi A'qāb ath-Thawrah al-Miṣriyah*.

Courses of Instruction (Lang. and Lit.)

(2) *Turkey under Atatürk.*

Texts: Türk Tarihi Tetkik Cemiyeti, *Tarih IV.*

Books: K. Kruger, *Kemalist Turkey and the Middle East.*

(3) *The Pahlavi Regime in Persia.*

Text: Malek ash-Sho'arā Bahār, *Tārikh-e Mokhtasar-e Ahzāb-e Seyāsi.*

Books recommended: Vincent Shecan, *The New Persia*; A. C. Millspaugh, *The American Task in Persia*; H. Makki, *Tārikh-e Bist-sālē-e Irān*; H. Filmer, *The Pageant of Persia*; H. Mokhtari, *Tārikh-e Bidāri-e Irān.*

G. (1) *Turkish Linguistics.*

Text: Saadet Çagatay, *Türk Lehçeleri Örnekleri.*

Books recommended: C. Brockelmann, *Osttürkische Grammatik der Islamischen Litteratursprachen Mittelasiens* and A. Caferoğlu, *Türk dil Tarihi Notları.*

(2) *Persian Dialects.*

Texts: A. Christensen, *Contributions à la dialectologie Iranienne* (vols. i and ii), and *Contes Persans en Langue Populaire*; Sobhi, *Afsānehā-e Kohan*; L. P. Elwell-Sutton, unpublished texts.

Books recommended: Geiger and Kuhn, *Grundriss der Iranischen Philologie*, vol. i, 2; F. C. Andreas, *Iranische Dialektauzeichnungen*; Oskar Mann, *Die Mundarten der Lur-Stämme und Die Tajik-Mundarten der Provinz Fars*; D. L. R. Lorimer, *The Phonology of the Bakhtiari . . . dialects of modern Persia*; Ann K. S. Lambton, *Three Persian Dialects*; J. de Morgan, *Mission Scientifique en Perse*, vol. v.

H. *Islamic Art and Archæology.* The material for special study will be indicated in class.

I. *Islamic Law.*

Text: Ibn Abi Zayd Al-Qayrawānī, *La Risāla.*

Books recommended: Fitzgerald, *Muhammadan Law*; Schacht, *Origins of Muhammadan Jurisprudence.*

Candidates taking Spanish must take D. All candidates must consult the departments concerned about their Special Subjects early in their second year, as it may not always be possible to provide lectures and supervision in every subject. For comparative purposes an elementary course in Armenian will be held if there is a demand for it.

MUSIC

PROFESSOR NEWMAN; DR. MARY GRIERSON, DR. FAIRBAIRN,
DR. REDLICH and MR. LEIGHTON, Lecturers

First Ordinary Course

Entrance qualification:—A pass in Music in the Leaving Certificate (or some equivalent evidence of proficiency). The course consists of:—

1. Outlines of History of Music (Tues., Thurs. and Fri. at 2 in autumn and spring). A course of illustrated lectures dealing with (i) the position of music in cultural history; (ii) the main periods and schools, and their mutual relations; (iii) development of style and form; (iv) the great masters and their main works in the context of this development.

Faculty of Arts

Books required:—Parry, *Outlines of Musical History* (Novello); Einstein, *A Short History of Music* (enlarged edition, 1948).

Books recommended for reference:—*The Oxford History of Music*; Grove, *Dictionary of Music and Musicians* (5th ed.).

2. Musical Form (Mon. at 2 in autumn and spring). A course of illustrated lectures comprising a general study of the factors determining musical form, and a particular study of fugue, the classical suite, sonata and rondo.

Books required:—Bach's Forty-eight Preludes and Fugues (Associated Board, ed. Tovey); Beethoven's Pianoforte Sonatas (Associated Board), vols. i and ii; Morris, *The Structure of Music*.

3. Ear-Training and Elements of Harmony (one hour per week at times to be arranged, during three terms).

Second Ordinary Course

Entrance qualification:—Only those students whose class work in Elementary Harmony and Ear-Tests in the First Ordinary course reaches a sufficient standard and who satisfy the Professor of Music in a short examination in those subjects (held in June or September) will be admitted to the Second Ordinary course.

The course will comprise the subjects of (1) Harmony in four parts; (2) Counterpoint in not more than three parts; (3) Ear-Training. In the degree examination there will be two papers each of three hours' duration in subjects (1) and (2) only.

Class hours:—Three hours each week throughout the autumn and summer terms, and four hours each week during the spring term.

Harmony:—Mondays at 12 noon (spring term) and Tuesdays at 3 p.m. (autumn and spring terms). Summer term: one hour per week at an hour to be arranged.

Counterpoint:—Thursdays at 3 p.m. (autumn and spring terms). Summer term: one hour per week at an hour to be arranged.

Ear-Training:—One hour per week (all terms) at an hour to be arranged.

Books required:—Lovell, *Second Year Harmony* (Hammond); Buck, *Unfigured Harmony*; Bach's Four-Part Chorales (recommended edition—371 Chorales, Schirmer); Bach, *Two-Part Inventions* (any edition).

Music Library and Museum

Miss J. M. ALLAN, M.A., F.L.A., Librarian

This library of music and books on music owes its existence to bequests and donations, and to General Reid. It includes the music libraries of the late Professor Sir Donald Tovey and the late Professor Niecks. Professor John Thomson, Théophile Bucher, and the Scottish Musical Society may also be mentioned as important benefactors. It is open to all students taking classes in music as a lending library and reading-room from 9.30 to 4.45 (Sat. 9.30-12) during the terms. Hours of opening during vacations are advertised on the door.

Music Studios, 46 George Square

In addition to lecture rooms and a museum of instruments, these premises contain eight practice studios available on a booking rota to all University students requiring such facilities for the serious study of music, and a gramophone studio and library of records open to students attending classes in the Department of Music. The studios are open daily during terms, 9 a.m. to 6 p.m. (Saturdays: 9 a.m. to 12 noon) except as otherwise advised by notice on the premises.

Courses of Instruction (Lang. and Lit.)

The Tovey Memorial Rooms

These rooms at 18 Buccleuch Place, which were given by Dr Sophie Weisse in memory of Professor Sir Donald Tovey, comprise reading-rooms, a library, and a music studio, and are open to senior music students during the terms. Their management is in the hands of the Professor of Music.

BIBLIOGRAPHY

* * * , Lecturer

In the spring term there will be a course of six lectures on Bibliography for literary students, with illustrative material. They will be held in the University Library. For particulars of dates and hours apply to the Librarian at the beginning of the spring term.

Books recommended:—McKerrow, *An Introduction to Bibliography for Literary Students*; Esdaile, *Student's Manual of Bibliography*; Bowers, *Principles of Bibliographical Description*; Kennedy, *A Concise Bibliography for Students of English*; Cross, *Bibliographical Guide to English Studies*.

BIBLICAL STUDIES

Mr. D. M. G. STALKER, Senior Lecturer

First Ordinary Course

Mon., Tues., Thurs. and Fri. at 4.15 during the three terms. The class meets in the Moral Philosophy Classroom, Old College. The work of the course covers one year, but for the convenience of non-graduating and post-graduate students who cannot attend four times a week it may be spread over two years, a half-course being taken each year. The Old Testament half-course of lectures is given on Thurs. and Fri., the New Testament on Mon. and Tues. If desired one of the half-courses may be taken as a separate course by non-graduating or post-graduate students. Undergraduate students who are including the course in their degree may *not* take the class in two sections.

The course has in view those who are preparing to give religious instruction in schools, but since its main purpose is to show the Bible and Biblical Studies in the light of modern scholarship, it will be open to matriculated students of all Faculties.

A degree pass in this class is one of the requirements for the Lower Diploma in Religious Education offered by the National Committee for the Training of Teachers. Candidates for this Diploma should do this class *in their University course, before going to Moray House*.

The subjects to be lectured upon will be taken from the following:—

Sketch of the History of Israel, with special reference to recent archæological evidence. The Hebrew mind. The Old Testament literature. The development of the religion of Israel. The Canon of the Old Testament. The intercanonical literature. The language and historical background of the New Testament. The modern view of the Gospels and the Early Christian literature. The teaching of Jesus. The Primitive Church and the spread of Christianity. The Canon of the New Testament. The history of the English Bible. Sketch of the history of biblical criticism. The modern situation regarding the Bible.

Prescribed books:—Amos; the Gospel of Mark; I. Allen, *The Early Church and its Environment*; Wm. Neil, *The Rediscovery of the Bible*; A. Parmelee, *A Guide Book to the Bible*; T. H. Robinson, *An Introduction to the Old Testament*; H. F. Sparks, *The Formation of the New Testament*.

Faculty of Arts

Recommended books:—W. F. Albright, *The Biblical Period*; C. H. Dodd, *The Bible To-day*; ed. T. W. Manson, *A Companion to the Bible*; *The Bible To-day*, published for *The Times*; C. H. Gordon, *Introduction to Old Testament Times*; Oesterley and Robinson, *The History of Israel*; H. W. Robinson, *A History of Israel: The Old Testament, its Making and Meaning*; H. H. Rowley, *The Growth of the Old Testament*; H. F. Hahn, *The Old Testament in Modern Research*; R. H. Charles, *Between the Old and the New Testaments*; Macgregor and Purdy, *Jew and Greek*; F. B. Clogg, *An Introduction to the New Testament*; A. H. McNeile, *An Introduction to the New Testament* (2nd ed.); A. D. Nock, *St. Paul*; H. M. Orlinsky, *Ancient Israel*; V. Taylor, *The Gospels*; W. F. Albright, *The Archaeology of Palestine*; F. Finegan, *Digging up the Past*; R. H. Pfeiffer, *The Books of the Old Testament*.

Class examination dates, see p. 472.

DEGREE EXAMINATIONS

There will be two papers on the prescribed books and the general work of the class.

Second Ordinary Course

Mon., Tues. and Thurs. at 5.15, with tutorial instruction as may be arranged, in the Moral Philosophy Classroom, Old College. Entrance qualifications: a good record in the General class, or other evidence satisfying the Lecturer.

A degree pass in this class following a degree pass in the First Ordinary class, together with a course in Moray House, will qualify for the Higher Diploma in Biblical Education offered by the National Committee for the Training of Teachers. (A degree pass in the First Ordinary class together with the course in Moray House will qualify for the Lower Diploma.) These Diplomas give qualifications for teaching Scripture in schools, and it is desirable that those who wish to qualify for them should take the University class or classes during their University course and before entering Moray House.

The subjects to be lectured upon will be taken from the following:—Recent discoveries in the ancient Near East and their bearing upon the Old Testament. The psychology and teaching of the prophets, with detailed study of selected passages. The Wisdom Literature, with detailed study of selected passages. The Canon of the Old Testament. The distinctive ideas of the Old Testament. The Jewish background of the New Testament—history, literature, institutions, etc. The Hellenistic background of the New Testament—the mystery religions, philosophy, the papyri, etc. Christianity and the Roman Empire to Constantine, with some notice of the archæological evidence. The ethics of the New Testament. The Pauline and Johannine Teaching, with detailed study of texts.

Books recommended for reading in conjunction with the lectures:—Albright, *From the Stone Age to Christianity*; Bentzen, *Introduction to the Old Testament*; Burrows, *What mean these Stones?* T. H. Robinson, *Prophecy and the Prophets*; Rowley, *The Nature of Prophecy in the Light of Recent Study*; Rankin, *Israel's Wisdom Literature*; Snaith, *The Distinctive Ideas of the Old Testament*; Glover, *The World of the New Testament*; Angus, *The Environment of Early Christianity*; Milligan, *Greek Papyri*; Curtis, *Jesus Christ the Teacher*; T. W. Manson, *The Teaching of Jesus*; Anderson Scott, *Christianity according to St Paul*; Armytage, *Christianity in the Roman World*.

Books for reference and extended reading:—Finegan, *Light from the Ancient Past*; Weiser, *Einleitung in das Alte Testament*; Guillaume, *Prophecy and Divination*; Lods, *The Prophets and the Rise of Judaism*; W. R. Smith, *The Prophets of Israel*; Hempel, *Werden und Wesen des Alten Testaments*; ed. Wheeler Robinson, *The People and the Book, Record and Revelation*; Oesterly, *Apocryphal Literature*; Pfeiffer, *Introduction to the Apocrypha*; Schlatter, *Geschichte Israels von Alexander bis Hadrian*; Bevan, *Jerusalem under the High*

Courses of Instruction (Lang. and Lit.)

Priests; Jones, *The Herods of Judea*; Guignebert, *The Jewish world in the time of Christ*; Moore, *Judaism*; Herford, *Judaism in the New Testament Period*; Lietzmann, *Beginnings of the Christian Church*; Latourette, *History of the Expansion of Christianity*, vol. I; Ramsay, *St. Paul, the Traveller and Roman citizen*, *The Cities of St. Paul*; Davies, *Paul and Rabbinic Judaism*; Arnold, *Roman Stoicism*; Murray, *Stoic, Christian and Humanist*; Wells and Barrow, *Short History of the Roman Empire*; W. Manson, *Jesus the Messiah*; Wendt, *The Teaching of Jesus*

DEGREE EXAMINATIONS

Two papers of two hours each on the general work of the class.

Faculty of Arts

(B) Department of Mental Philosophy

LOGIC AND METAPHYSICS

PROFESSOR HARRIS, Acting Head of Department; Mr. FAIRWEATHER
and Dr. DAVIE, Lecturers

Ordinary Course

Tues., Wed. and Fri. at 10 during the three terms, besides additional meeting for tutorial instruction.

The course is devoted to three main subjects, General Philosophy, History of Philosophy and Logic, which are carried on simultaneously throughout the session. The student is introduced to the chief problems of Philosophy in connection with their historical development in Greek and more especially in modern times. Those parts of Psychology which have a direct bearing upon the philosophical problems are dealt with briefly. After students have familiarised themselves with Sinclair's *The Traditional Formal Logic* (Methuen), which should be read in the long vacation before entering the class, lectures are given upon the fundamental problems of Logic, with special reference to the methods of proof, demonstrative and circumstantial, employed in the positive and historical sciences.

Preparatory reading in any of the following books will be found helpful:—Dickinson, *The Greek View of Life*; Plato, *The Apology* Crito and *Phædo*; B. Russell, *Problems of Philosophy* (Home University Library).

Class examination dates, *see* p. 474.

DEGREE EXAMINATIONS

The general work of the course, and a special knowledge of the following books:—Plato, *Euthyphro*, *The Apology*, *Crito* and *Phædo*; Descartes, *Discourse on Method*, parts i-iv; Locke, *Essay concerning Human Understanding*, bk. ii, chaps. 1-12 and 23, bk. iv, chap. 3; Berkeley, *Principles of Human Knowledge*; Hume, *Enquiry concerning the Human Understanding*; Mill, *System of Logic*, bk. ii, chap. 3, and bk. iii, chap. 8.

Second Ordinary Course (Intermediate Honours)

Mr. A. M. FAIRWEATHER and Dr. DAVIE, Lecturers

The entrance qualification is a merit certificate in the First Ordinary course. This condition may be relaxed in special circumstances.

Tues., Thurs. and Fri. at 12 in autumn and spring. The lectures will be devoted to discussion of the problems of logic and epistemology as treated by Aristotle, Descartes, Mill, Bradley and Bosanquet, and the Logical Positivists. Recommended for preliminary reading:—Joseph, *Introduction to Logic*; Mill, *System of Logic*, book iii (portions); Bosanquet, *Essentials of Logic*; and for general reference, Stebbing, *A Modern Introduction to Logic*.

Tues., Thurs. and Fri. at 11 in summer. The philosophy of Leibniz will be discussed with special reference to problems of the nature of knowledge; and the latter part of the course will be an introduction to the study of Kant's *Critique of Pure Reason*.

Books recommended:—*Monadology* (in French, ed. Boutroux; in English, trans. Latta); *New Essays* (in French, ed. Batroux; in English, trans. Langley).

Class examination dates, *see* p. 474.

Problems Common to Psychology and Philosophy

PROFESSOR DREVER, and Others

One lecture per week with tutorial instruction, for three terms. This course will normally be taken by students in their final year.

Courses of Instruction (Mental Phil.)

Honours Course

PROFESSOR HARRIS; and Mr. FAIRWEATHER

This course, constituting an Honours course, meets at 11 on Tues. and Thurs. in autumn and spring, and at other times to be arranged. Hume's *Treatise on Human Nature*, bk. i, Kant's *Critique of Pure Reason* and *Critique of Judgment* will be made the basis of study and discussion. Topics of discussion will be chosen to suit the individual needs of members of the course, and guidance will be given in their independent studies in the general field of Philosophy.

The Nature of Knowledge

DR. BROADIE

About twelve lectures at times to be arranged to suit students of different Faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (Oxford).

The course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

Gifford Lectures on Natural Theology

The next course of lectures on Natural Theology will be delivered on dates to be announced later.

ANCIENT PHILOSOPHY

MR. COXON, Senior Lecturer

Introductory Course

Tues., Thurs. and Fri. in summer at 9. This course of about twenty lectures is intended both for those who are reading for Honours in Classics, by whom it will be taken in the summer term of the second year of study, and for those reading for Honours in Mental Philosophy. Its purpose will be to give a general introduction to Greek Philosophy.

Books recommended:—Burnet, *Early Greek Philosophy* and *Greek Philosophy from Thales to Plato*; Kirk and Raven, *The Presocratic Philosophers*; Armstrong, *An Introduction to Ancient Philosophy*; Jaeger, *Theology of the Early Greek Philosophers*. Classical students are recommended to study the original texts in Diels, *Fragmente der Vorsokratiker* or Kirk and Raven, *op. cit.*

Honours Courses

1. The Earlier Dialogues of Plato.

Tues., Thurs. and Fri. in spring at 12. The course of about twenty-five lectures is intended primarily for those who are reading for Honours in Classics, and, together with the preceding Introductory course, will deal with the work prescribed for Ancient Philosophy (A) as a Special Subject for Honours in Classics (see p. 317). The course will normally be given in alternate years. The following works of Plato will be discussed:—*Apology*, *Euthyphro*, *Meno*, *Protagoras*, *Symposium*, *Phædo*, *Republic*.

2. The Later Dialogues of Plato

Three days a week in autumn and spring at 9. The course of about thirty lectures is intended primarily for those who are reading for Honours in Mental Philosophy. It will normally be given in alternate years. The following Dialogues will be discussed:—*Phædo*, *Republic*, *Parmenides*, *Theætetus*, *Sophist*.

Faculty of Arts

3. *The Philosophy of Aristotle.*

Two or three days a week in autumn at an hour to be arranged. The course of fifteen lectures (of an Honours standard) on Aristotle in general, and in particular on his treatise *De Anima*, is intended primarily for those who are reading for Honours in Mental Philosophy. It will normally be given in alternate years.

4. *Aristotle and later schools.*

Two days a week in spring at times to be arranged. The course is intended for those candidates for Honours in Classics who take Ancient Philosophy as their Special Subject and prefer alternative (B) on p. 317. An outline will be given of the philosophy of Aristotle and of the Stoic, Epicurean and Sceptical schools, with special attention to the interpretation of Lucretius and Cicero. The following works will be discussed:—

Aristotle *Nicomachean Ethics* VIII and IX; Epicurus, *Letter to Menoeceus* and *Κόρυται Δόξαι*; Lucretius, books I and II; Cicero, *de Finibus* III and IV; Cicero, *Lucullus*, sect. 13-62.

For the subjects of examination in Ancient Philosophy for Honours in Mental Philosophy and for Honours in Classics, see Index.

MORAL PHILOSOPHY

PROFESSOR BARNES; MR. ERROL BEDFORD, DR. BROADIE
and Mr. ARDAL, Lecturers

Ordinary Course

Mon., Wed. and Thurs. at 10. The course will comprise discussion of the central philosophical problems concerning morality, through a critical examination of some leading ethical doctrines of classical and modern philosophers. Members of the class may use the class library. Tutorials will normally be held on Tues. and Fri. at 10 and 2.

Class examination dates, see p. 474.

DEGREE EXAMINATIONS

The general work of the course and a special knowledge of the following books:—Plato, *The Republic*, bks. i-iv and viii-ix (Dent); Kant, *Fundamental Principles of the Metaphysic of Ethics* (Longmans); Mill, *Utilitarianism* (Dent); and Hume, *Enquiry Concerning the Principles of Morals* (O.U.P.), *Treatise on Human Nature*, bk. II, part III, sects. i-iii, and bk. III, part I, sects. i-ii (Everyman edition, vol. ii).

Social Philosophy

Dr. F. BROADIE and * * *, Lecturers

Tues., Wed. and Fri. at 10 during the three terms.

The course in Social Philosophy is designed as a three term course qualifying for the Ordinary degree of M.A. It is intended to provide a philosophical introduction to the study of man in his social aspect, special attention being paid to the structure, function and development of human relations, notably in the fields of politics, religion and culture.

First Term: Structure. Social and individual aspects of personality. The social and natural sciences.

Second Term: Function. Inter-active social behaviour. The individual and society.

Third Term: Development. Philosophical aspects of social change.

The following books are set for special study and will be the subject of examination:—Aristotle, *On Friendship* (Nic. Ethics, bks. VIII and IX); Hobbes, *Leviathan*, chaps. 13-21; Rousseau, *Discourse on the Origin of Inequality*; Marx, *Selected Passages*; Green, *Principles of Political Obligation*; Bergson,

Courses of Instruction (Mental Phil.)

Two Sources of Morality and Religion, chaps. I and IV; M. Weber, *Protestant Ethic and Spirit of Capitalism* (selections); Durkheim, *Philosophy and Sociology*.

Class examination dates, see p. 474.

Honours Course

Tues., Wed. and Fri. at 12, and at other times to be arranged, in autumn and spring. The course will include the critical study of the classical moralists, with special reference to Plato, *The Republic* and *Philebus*; Aristotle, *The Nicomachean Ethics*; Spinoza, *Ethics*; and Kant, *The Critique of Practical Reason*; together with a systematic discussion of ethical principles.

Honours Half-Course

Mr. ERROL BEDFORD and * * *, Lecturers

Fri. at 11, and at other times to be arranged, in summer. This course will consist of lectures on Plato, *Philebus*, and Aristotle, *Nicomachean Ethics*. Students reading for Honours in Philosophy are expected to take this course along with the summer term of the Ordinary course. Other members of the Ordinary class are invited to attend if they wish.

Honours Course in Æsthetics

Mr. ERROL BEDFORD, Lecturer

Tues. and Thurs. at 2 in autumn and spring. The class will be in the Department of Fine Art, 19-20 George Square. This course is intended, in the first instance, for students preparing for the M.A. (Honours) examination in Fine Art. The lectures will deal with the theory of Æsthetics from the standpoint of the production of works of art. One hour per week will be devoted to class discussion.

Books recommended:—Alexander, *Beauty and Other Forms of Value*; Bell, *Art*; Bullough, *Æsthetics*; Carritt, *An Introduction to Æsthetics and Philosophies of Beauty from Socrates to R. Bridges*; Collingwood, *Principles of Art*; Croce, *Æsthetic* (Eng. Trans. by Ainslie, 2nd ed.) and *Essence of Æsthetic*; Fry, *Vision and Design and Transformations*; Gilbert and Kuhn, *A History of Æsthetics*; Greene, *The Arts and The Art of Criticism*; Langer, *Feeling and Form*; Listowel, *A Critical History of Modern Æsthetics*; Worringer, *Abstraction and Empathy*.

PSYCHOLOGY

PROFESSOR DREVER; Dr. MARY COLLINS, Reader; Mr. MCMAHON and Dr. SEMEONOFF, Senior Lecturers; Mr. MCKENZIE, Miss COOKSON, Dr. HUNTER and Dr. DONALDSON, Lecturers.

First Ordinary Course

Mon., Tues., Wed. and Fri. at 11. The topics dealt with will be:—Scope and methods on Psychology; external and internal determinants of behaviour; learning; successful and unsuccessful adaptation; measurement of individual differences; the structure of the personality; introduction to social and clinical psychology.

During the year practical work will be carried out each week at hours to be arranged.

Books recommended:—Krech and Crutchfield, *Elements of Psychology*; Morgan, *Introduction to Psychology*, or Hilgard, *Introduction to Psychology*; Hunter, *Memory*; Vernon, *Measurement of Abilities*; Katz, *Animals and Men*.

Class examination dates, see p. 475.

DEGREE EXAMINATIONS

The class lectures, together with the work in the practical section of the course.

Faculty of Arts

Second Ordinary Course

Daily at 11 during the three terms. There are four concurrent courses:—

(1) EXPERIMENTAL AND STATISTICAL METHOD (Dr Semeonoff). Wed. and Fri.

Books recommended:—Guilford, *Fundamental Statistics in Psychology and Education*; or Garrett, *Statistics in Psychology and Education* (5th ed.); Siegel, *Nonparametric Statistics for the Behavioural Sciences*; Maxwell, *Experimental Design in Psychology and the Medical Sciences*.

(2) THEORY OF PERSONALITY (Miss Cookson). Tues.

Books recommended:—John Rickman, *Sigmund Freud—A General Selection*; Ruth L. Munro, *Schools of Psychoanalytic Thought*; Gordon Allport, *Personality*; Hall and Lindzey, *Theories of Personality*; R. B. Cattell, *Description and Measurement of Personality*; H. J. Eysenck, *The Scientific Study of Personality*.

(3) LEARNING AND THINKING (Dr. Hunter). Thurs. The course is concerned with processes of human learning, remembering and thinking. Emphasis is placed on the patterning of these processes within the developing-ageing individual.

Books recommended:—Bartlett, *Remembering*; Bartlett, *Thinking*; Hebb, *A Textbook of Psychology*; Johnson, *The Psychology of Thought and Judgment*; McKellar, *Imagination and Thinking*; Osgood, *Method and Theory in Experimental Psychology*; Welford, *Ageing and Human Skill*.

(4) EXPERIMENTAL PSYCHOLOGY (Dr. Hunter and Others). This is a laboratory course requiring two consecutive hours per week at times to be arranged.

Books recommended:—Woodworth and Schlosberg, *Experimental Psychology*; Postman and Egan, *Experimental Psychology*.

Class examination dates, see p. 475.

Intermediate Honours Course

Tues., Wed. and Thurs. at 9; Tues. and Thurs. at 10. With meetings for practical work. There are four concurrent courses:—

(1) PERCEPTION (Professor Drever). Tues. The course will cover theoretical and experimental work on perception from 1900 onwards.

Books recommended:—Boring, *Sensation and Perception in the History of Experimental Psychology*; Broadbent, *Perception and Communication*; Brunswik, *Perception and the Representative Design of Psychological Experiments*; Gibson, *The Perception of the Visual World*; Hebb, *The Organisation of Behaviour*; Koffka, *Principles of Gestalt Psychology*; Vernon, *A Further Study of Visual Perception*; Koch, *Psychology: A Study of a Science*, vol. I.

(2) CHILD PSYCHOLOGY (Dr. Collins). Wed. This course covers the development of the individual from birth with some consideration of problems and difficulties.

Books recommended:—Barker, Kounin and Wright, *Child Behaviour and Development*; Manual of *Child Psychology* (2nd ed., Ed. Carmichael); Gesell, *The First Five Years of Life*; Isaacs, *Intellectual Growth in Young Children*; Piaget, *The Child's Conception of Number*; Piaget, *The Origin of Intelligence in the Child*; *Discussions on Child Development* (ed. Tanner and Inhelder); Hurlock, *Adolescent Development*; Zubek and Solberg, *Human Development*; Werner, *Comparative Psychology of Mental Development*; Burt, *The Young Delinquent*; Bovet, *Psychiatric Aspects of Juvenile Delinquency*; Bowlby, *Maternal Care and Child Health*; Bowlby, *44 Juvenile Thieves*; Stott, *Human Nature and Delinquency*; Glueck and Glueck, *Unravelling Juvenile Delinquency*; Kanner, *Child Psychiatry*; Burbury, Balint and Yapp, *Child Guidance*; Gittins, *Approved School Boys*; Jackson and Todd, *Child Treatment and the Therapy of Play*.

(3) MENTAL TESTING (Dr. Collins). Tues. and Thurs. at 10. In addition, two hours per week will be required for practical work at times to be arranged.

Courses of Instruction (Mental Phil.)

Books recommended:—Anastasi, *Psychological Testing*; Cronbach, *Essentials of Psychological Testing*; Terman and Merrill, *Measuring Intelligence*; Freeman, *Theory and Practice of Psychological Testing*; Goodenough, *Mental Testing*; Vernon, *The Structure of Human Abilities*; Watson, *The Clinical Method in Psychology*; Wechsler, *The Measurement of Adult Intelligence* (4th ed.); Schonell, *Backwardness in the Basic Subjects*.

(4) SOCIAL AND INDUSTRIAL PSYCHOLOGY (Mr. McKenzie). Thurs. A course in Industrial Psychology, leading on to a consideration of some of the social factors in human behaviour, and of attempts to systematise the study of them.

Books recommended:—Krech and Crutchfield, *Theory and Problems of Social Psychology*; Swanson, Newcomb and Hartley (ed.), *Readings in Social Psychology*; Festinger and Katz, *Research Methods in the Behavioural Sciences*; Lewin, *Field Theory in Social Science*; Mayo, *Human Problems of an Industrial Civilisation*, *Social Problems of an Industrial Civilisation*; Jaques, *The Changing Culture of a Factory*; Rogers, *Client-centred Therapy*; Ghiselli and Brown, *Personnel and Industrial Psychology*; Eysenck, *Scientific Study of Personality*.

Final Honours

Mon., Wed., Thurs. at 10, and Fri. at 9, during the autumn and spring terms, with meetings for practical work. There are four concurrent courses:—

(1) PSYCHOLOGICAL THEORY (Professor Drever). Fri. An attempt will be made in an informal series of discussions to explore some of the systematic problems of Psychology and contemporary attempts to solve them.

Books recommended:—Brunswik, *The Conceptual Framework of Psychology*; Thorpe, *Learning and Instinct in Animals*; Lewin, *A Dynamic Theory of Personality*; Marx, *Psychological Theory*; Morris, *Signs, Language and Behaviour*; Poffenberger (ed.), *Modern Learning Theory*; Peters, *The Concept of Motivation*.

(2) EDUCATIONAL AND VOCATIONAL PSYCHOLOGY (Mr. McMahon). Mon. The lectures will deal with theories and methods of assessment, particularly with those applying to educational and vocational guidance and selection. Practical work will be carried out at the Department's Applied Psychology Unit.

Books recommended:—Allport, *Personality*; Vernon, *The Structure of Human Abilities*, *Personality Tests and Assessments*; Oldfield, *The Psychology of the Interview*; Ghiselli and Brown, *Personnel and Industrial Psychology*; Super, *Appraising Vocational Fitness*; McClelland, *Selection for Secondary Education*; Eysenck, *Dimensions of Personality* or *The Scientific Study of Personality*.

(3) TECHNIQUES OF INDIVIDUAL ASSESSMENT (Dr. Semeonoff). Wed. The course covers the theory and application of projective techniques, the diagnostic use of psychological tests and situational testing with leaderless groups. Attendance for one two-hour period per week for practical work is required.

Books recommended:—Klopfer et al., *Developments in the Rorschach Technique*; Bell, *Projective Techniques*; Rappaport, *Manual of Diagnostic Psychological Testing*; Murray, *Explorations in Personality*; Bellak, *The Thematic Apperception Test and the Children's Apperception Test in Clinical Use*; Harris, *The Group Approach to Leadership Testing*; Semeonoff and Trist, *Diagnostic Performance Tests*.

(4) NEUROPSYCHOLOGY (Dr. Naughton). Thur. After a revision of elementary neuroanatomy and neurophysiology, students are introduced to some of the effects of damage to the nervous system upon psychological function, illustrated by clinical and pathological material. Implications for general psychological theory are discussed.

Books recommended:—Morgan and Stellar, *Physiological Psychology*; Ranson, *The Anatomy of the Nervous System*; Walsh, E. G., *Physiology of the Nervous System*; Cobb, *Foundations of Neuropsychiatry*; Klein and Mayer.

Faculty of Arts

Gross, *The Clinical Examination of Patients with Organic Cerebral Disease*; Neilsen, *Agnosia, Apraxia, Aphasia*; Weisenburg and McBride, *Aphasia*; Goldstein, *Brain Injuries in War*.

Problems Common to Psychology and Philosophy

PROFESSOR * * * and Others

One lecture per week with tutorial instruction, for three terms. This course will normally be taken by students in their third year.

Psychology Laboratory and Library

The Psychology Laboratory is open during the terms, for research and for practical instruction, under the direction of the Professor. The library is open to members of the Honours classes and to research students.

HONOURS EXAMINATIONS IN MENTAL PHILOSOPHY

Curriculum.

A normal curriculum for Honours in Mental Philosophy may be expected to run as follows:—

1st Year:

First Ordinary Logic and Metaphysics; two subjects outside the Honours Group.

2nd Year:

Intermediate Honours Logic and Metaphysics.

Ordinary Moral Philosophy.

First Ordinary Psychology.

Moral Philosophy Honours half-course.

3rd Year:

Honours Logic and Metaphysics.

Junior Honours Moral Philosophy.

Ancient Philosophy II *or* Intermediate Honours Psychology.

4th Year:

Senior Honours Moral Philosophy.

Ancient Philosophy III *or* Problems Common to Psychology and Philosophy

Examination.

The examination for Honours in Mental Philosophy will consist of the following papers:—

1. Three papers in Logic and Metaphysics (three hours each).
2. Two papers in Moral Philosophy (three hours each).
3. One paper in Ancient Philosophy (three hours).
4. One essay paper (three hours).

All candidates must have attended the First Ordinary course in Psychology. Candidates may specialise in Psychology in which case they will take two papers in Advanced Psychology, one of them being on problems common to Psychology and Philosophy, and omit one paper in Logic and Metaphysics and the paper in Ancient Philosophy.

Prescribed books.

LOGIC AND METAPHYSICS.—A general knowledge, historical and systematic, of the main problems of Philosophy, Psychology and Logic, and a special knowledge of the following books:—Plato, *Sophist*; Aristotle, *De Anima*, bk. i, ch. 1; bk. ii, chs. 1-6, 12; bk. iii, chs. 1-5; Descartes, *Meditations*; Spinoza, *Ethics*, or Leibniz, *Selected Works*; Hume, *Treatise on Human Nature*, bk. i,

Courses of Instruction (Mental Phil.)

and *Dialogues concerning Natural Religion*; Kant, *Critique of Pure Reason* and *Critique of Judgment*.

MORAL PHILOSOPHY.—A general knowledge of the history of Ethical Theory and a more special knowledge of the following books:—Plato, *The Republic* and *Philebus*; Aristotle, *Ethics*; Kant, *Critique of Practical Reason*.

PSYCHOLOGY.—An advanced knowledge of general and experimental Psychology; the history of Psychology, and more especially of British Psychology from Locke. Set books:—Broad, *Mind and its Place in Nature*; Morris, *Signs, Language and Behaviour*; Bartlett, *Remembering*; Koffka, *Principles of Gestalt Psychology*; Ryle, *The Concept of Mind*.

HONOURS EXAMINATION IN PSYCHOLOGY

The normal curriculum for Honours in Psychology will include the following courses:—

1st Year:

- (a) First Ordinary Psychology.
- (b) Two subjects outside the Honours Group (one to be taken from First or Second Ordinary Mathematics, Moral Philosophy or Political Economy).

2nd Year:

- (a) Second Ordinary Psychology.
- (b) Ordinary Logic and Metaphysics.

3rd Year:

- (a) Intermediate Honours Psychology.
- (b) An Honours Psychology course on fundamental problems common to Psychology and Philosophy.

It is desirable that Elementary Statistics should be taken in the summer term.

4th Year:

Honours Psychology (two terms).

The Final Honours examination will cover the subjects discussed in the Intermediate Honours and Honours Psychology classes and in the Honours Philosophy class normally taken in the third year.

Haldane Philosophical Library (Old College)

This library is used both as a lending and a reference library for Honours and post-graduate students. There is a deposit of 10s. and an annual subscription of 2s. 6d.

POLITICAL ECONOMY

PROFESSOR PEACOCK; Mr. I. G. STEWART, Mr. INNES SMITH, Dr. L. C. WRIGHT, Senior Lecturers; Dr. A. E. THOMPSON, Miss HEUGHAN, Mr. D. G. M. DOSSER and Dr. T. L. JOHNSTON, Lecturers.

Ordinary Course

Mon. Tues. and Thurs. at 9 during the three terms. The lectures are devoted to the general principles of economics and to questions in applied economics. Tutorial instruction is given in small groups. The course qualifies also for the degrees of B.Com. and B.L., and forms part of the prescribed training for Chartered Accountant students. Benham's *Economics*, Hicks's *Social Framework*, and Gray's *Development of Economic Doctrine* will be found useful for preliminary reading.

Books recommended:—P. A. Samuelson, *Economics*, An Introductory Analysis, (4th ed.); A. Cairncross, *Introduction to Economics*; C. F. Carter, *A Guide to Social Accounts*; G. L. S. Shackle, *Economics for Pleasure*; G. Crowther, *Outline of Money*; and the reading specified in the lectures.

Class examination dates, see p. 475.

Faculty of Arts

DEGREE EXAMINATIONS

The work of the course together with a knowledge of Adam Smith, *Wealth of Nations*, bk. I, chaps. 1-7, bk. V, chap. 1; Karl Marx, *Value, Price and Profit*, chaps. VI-XIV; T. Veblen, *Theory of the Leisure Class*; A. Marshall, *Principles of Economics*, bks. IV and V; J. M. Keynes, *Essays in Persuasion*, part III, chap. 2, part IV, chap. 2, part V, chap. 2.

Intermediate Honours Course

Three days a week at 10, during the three terms. This course is primarily for students who intend to proceed to Honours. It may also be taken as the second part of a double course for the Ordinary M.A. degree or as a course in Group C for the B.Com. degree.

Autumn.—Economic Problems of Industry. Books recommended:—W. J. L. Ryan, *Price Theory*; E. H. Phelps Brown, *A Course in Applied Economics*; D. Burn (ed.), *The Structure of British Industry*, Vols. 1 and 2; and the reading specified in the lectures.

Spring.—(i) Economics and Labour. Books recommended:—Lloyd G. Reynolds, *Labor Economics and Labor Relations*; A. Flanders and H. A. Clegg, *The System of Industrial Relations in Great Britain*; J. T. Dunlop, *Wage Determination under Trade Unions*; K. W. Rothschild, *The Theory of Wages*; Taylor and Pierson (editors), *New Concepts in Wage Determination*; and the reading specified in the lectures.

(ii) Public Finance. Books recommended:—H. C. Edey and A. T. Peacock, *National Income and Social Accounting*; U. K. Hicks, *Public Finance* (2nd ed.); J. F. Duc, *Government Finance*; and the reading specified in the lectures.

Summer.—Monetary Economics. Books recommended:—J. H. B. Tew, *Wealth and Income*; R. S. Sayers, *Modern Banking* (4th ed.); N. A. D. MacCrae, *The London Capital Market*; F. W. Paish, *Business Finance*; A. C. L. Day, *Outline of Monetary Economics*; and the reading specified in the lectures.

Class examination dates, see p. 475.

Honours Course

Mon., Tues., Thurs. and Fri. at 11 in autumn and spring, with additional meetings. The lectures are devoted to branches of advanced economics not dealt with in the two previous courses.

In addition, students will be given tutorial instruction in two special subjects chosen from the following:—

Economic Statistics, History of Economic Thought, International Economics, Mathematical Economics, Monetary Economics and Public Finance. Economic History may also be taken as a Special Subject. For details and books recommended, see Index, "Economic Science".

Nicholson Library

This library, which is situated in 42 George Square, is used both as a lending library and as a reference library for Honours and post-graduate students.

Post-graduate Seminar in Economics

This seminar is held weekly throughout the session on Wednesdays at 11 a.m. It is attended by staff and post-graduate students, and is devoted to the discussion of advanced economic problems.

ECONOMIC HISTORY

PROFESSOR YOUNGSON; Mr. MARWICK and Mr. FLINN, Lecturers

Ordinary Course

PROFESSOR YOUNGSON

The full course consists of seventy-five lectures, on Mon., Tues. and Thurs. at 2, during the three terms. The class will meet also for tutorial instruction. The course will treat of British and American Economic History and will embrace the following subjects:—

First Part.—1. The growth of the manor; characteristics of mediæval rural life. 2. The origin of towns; the guild merchant; craft guilds; municipal control; development of the cloth industry; mediæval commerce; taxation; currency. 3. Tudor nationalism; agrarian changes; industrial regulation; beginnings of the Poor Law; Stuart mercantilism; monopolies; trading companies; beginnings of banking. 4. The economic development of Scotland from the earliest times to the eighteenth century.

Second Part.—1. Growth of population; innovations in industry and the spread of industrialisation; improvements in the means of communication; extension of markets; enclosure and its consequences. 2. Combination Laws; the problems of the old Poor Law; the beginnings of factory legislation. 3. Taxation during the French Wars; the Free Trade Movement; the Repeal of the Corn Laws; the Cobden Treaty; the growth of banking; the suspension of cash payments; the Bullion Report; the Bank Charter Act of 1844. 4. Aspects of the spread of industry in Scotland. 5. Falling prices and international competition; the emergence of new industries; trade fluctuations. 6. Britain between the wars. 7. The economic history of the United States of America; the colonial period; American independence; the war of 1812; the westward movement; the slave economy in the south; the trust movement; tariff history; the New Deal.

Books recommended:—J. H. Clapham, *A Concise Economic History of Britain*; G. N. Clark, *The Wealth of England*; T. S. Ashton, *The Industrial Revolution*; W. H. B. Court, *Concise Economic History of Britain from 1750*.

Class examination dates, see p. 472.

DEGREE EXAMINATIONS

The general Economic History of the British Isles from the earliest times to the present day, together with that of the United States from the colonial period.

Books recommended:—J. H. Clapham, *A Concise Economic History of Britain*; G. N. Clark, *The Wealth of England*; P. Mantoux, *The Industrial Revolution in the Eighteenth Century*; T. S. Ashton, *The Industrial Revolution*; W. H. B. Court, *Concise History of Britain from 1750*; J. F. Rees, *Short Fiscal and Financial History of England*; A. J. Youngson Brown, *The American Economy, 1860-1940*.

Documents on Economic History

Prescribed texts:—*English Economic History—Selected Documents*, ed. Brown, Bland and Tawney; *Early English Tracts on Commerce*, ed. McCulloch; Thornton's *Enquiry into the Nature and Effects of Paper Credit of Great Britain*, ed. Hayek; *Britain's Industrial Future* (The Liberal Industrial Enquiry).

Intermediate Honours Course

Mr. MARWICK

Mon., Tues. and Thurs. at 3 during the three terms. The course will deal with the Economic History of Scotland and Ireland since about 1660, and will include the following topics:—

(1) Scotland.—Retrospect of previous economic development. Economic

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effects of the Unions. Conditions in early eighteenth century. The Industrial Revolution and its consequences. Population growth, urban life, standards of living and social conditions. The Highlands: clan system and Clearances. Agriculture and land tenure: the teinds. The Victorian Age. Industrial developments: heavy industry, concentration and export trade. Banking and investment. Agriculture and land problems. Trade unionism and co-operation. Philanthropic movements and state action. Housing and public health. The Twentieth Century. War conditions and influences. Depression of staple industries. Collectivism, Planning and Devolution. Relation to British and World Economy: comparative study of similar economies.

The course will be conducted partly on tutorial lines, and will include study of contemporary sources, such as the two "Statistical Accounts," the Poor Law Reports of 1844 and 1909, British Association Local Handbooks for 1876 and 1901, Report of Commission on Housing (1912-17), "*Industries of the Clyde during the War*" (Carnegie Trust, 1924).

(2) Ireland.—Retrospect: Ireland under the Colonial System. The Union of 1801. The Agrarian Problem: Land Acts and Agricultural Co-operation. Emigration. Industrial developments: Ulster textiles and shipyards. Labour organisation. Economic Policy of Eire.

Books recommended:—(1) Grant, *Economic History of Scotland*; Hamilton, *Industrial Revolution in Scotland*; Graham, *Social Life of Scotland in the Eighteenth Century*; Macdonald, *Scotland's Shifting Population*; Johnston, *History of Working Classes in Scotland*; Ferguson, *Dawn of Scottish Social Welfare*; Rait and Pryde, *Scotland* (1954 Edition); Saunders, *Scottish Democracy*; Marwick, *Economic Developments in Victorian Scotland*; Cowan, *The Newspaper in Scotland, 1815-60*; Mackenzie, *Scotland in Modern Times*; Bowie, *The Future of Scotland*; Gollan, *Scottish Prospect*; A. Scotland, *Modern Scotland*; I. M. M. Macphail, *A History of Scotland*, bk. ii; A. and N. Clow, *The Chemical Revolution*; T. B. Franklin, *A History of Scottish Farming*; M. Gray, *The Highland Economy*; J. E. Handley, *Scottish Farming in the Eighteenth Century*; L. C. Wright, *Scottish Chartism*; A. K. Cairncross, *The Scottish Economy*. (2) O'Brien, *Economic History of Ireland from the Union to the Famine*; Chart, *An Economic History of Ireland*; O'Connor, *History of Ireland, 1798-1924*; D. Gwynn, *Irish Free State*; S. Gwynn, *Ireland*; Riordan, *Modern Irish Trade and Industry*; Burke, *Industrial History of Ireland*; Beckett, *Short History of Ireland*; Shearman, *Modern Ireland*; Connell, *Population of Ireland*; Edwards and Williams, *The Great Famine*; Green, *Lagan Valley*; Johnston, *Irish Agriculture in Transition*.

Honours Courses

(1) The Economic History of Britain, 1800-1860

Course A qualifies for Honours in Economic Science.

Course B can be taken as an optional Special Subject for Honours in Economic Science.

Course A taken together with Course B qualifies for Honours in History.

A.—The lectures will deal with the agricultural, industrial and commercial development of Britain together with a discussion of the fiscal and financial problems of the period. The course will also include the history of Poor Law, Factory Legislation and Trade Unionism during the period. Two lectures a week will be given in the autumn and spring at times to be arranged.

Books recommended:—W. H. B. Court, *Concise Economic History of Britain from 1750*; J. H. Clapham, *Economic History of Modern Britain—The Early Railway Age, 1820-1850*, B. L. Hutchins and A. Harrison, *History of Factory Legislation*; S. and B. Webb, *History of Trade Unionism*; J. F. Rees, *Short Fiscal and Financial History of England*; Graham Wallas, *The Life of Francis Place*; Mark Hovell, *The Chartist Movement*; H. Hamilton, *Industrial Revolution in Scotland*; Ernlc, *English Farming, Past and Present*; Ashton and Sayers, *Papers in English Monetary History*.

B.—For special study:—The Bullion Report (1810); The Poor Law Report (1834); W. P. Alison, *Observations on the Management of the Poor in Scotland* (1840); Sir Stafford Northcote, *Twenty Years of Financial Policy*; The Bank Charter Act of 1844; A. B. Richmond, *Condition of Manufacturing Population* (1824); Thomas Hodgskin, *Labour Defended* (1825); Friedrich Engels, *The Condition of the Working Class in England* (1845); Alexander Sommerville, *Autobiography of a Working Man* (1848). Tutorial instruction will be given at times to be arranged.

(2) History of the Working Class Movement

MR. MARWICK

Twice weekly in autumn and spring at times to be arranged. A study of the organised working class movements (trade unions, co-operative associations, Socialist societies, Labour Party) and relevant schools of thought in Great Britain from the beginning of the nineteenth century to the present, with special reference to Scotland, and some comparative study of corresponding movements on the Continent and in the United States and British Dominions, and of their international relations.

Prescribed books:—Cole and Filson, *British Working Class Movements*; A. Aspinall, *The Early English Trade Unions*, pp. 1-69, 104-186; D. Torr (ed.), *History in the Making*, vol. iii (Labour's Turning Point, 1880-1900); *Reports of Commissioners on Trade Unions, 1867-69* (First and Final Reports); *Fabian Essays in Socialism*; H. J. Laski (ed.), *Communist Manifesto*.

To be supplemented by cyclostyled extracts relating to the history of the working class movement in Scotland. Students will also be given assignments involving study of contemporary working class periodicals. This course qualifies for Honours in History.

Books recommended:—G. D. H. Cole, *A Short History of the British Working Class Movement*; *British Working Class Politics*; *History of the Labour Party from 1914*; *Organised Labour*; *British Trade Unionism Today*; S. and B. Webb, *History of Trade Unionism*; *Industrial Democracy*; *The Consumers' Co-operative Movement*; A. M. Carr-Saunders et al., *Consumers' Co-operation in Great Britain*; C. R. Fay, *Co-operation at Home and Abroad*; W. Maxwell, *History of Co-operation in Scotland*; T. Johnston, *History of the Working Classes in Scotland*, chs. ix-xiv; H. A. Marquand, *Organised Labour in Four Continents*; G. P. Jones, *Workers Abroad*; E. Dolléans, *Histoire du Mouvement Ouvrier*, 2 vols.; E. Halévy, *Histoire du Socialisme Européen*; M. Beer, *History of British Socialism*; Sir Alexander Gray, *The Socialist Tradition*; N. Barou, *British Trade Unionism*; H. M. Pelling, *Origins of the Labour Party*; *Challenge to Socialism*; W. Galenson, *Comparative Labour Movements*; E. L. Wigham, *Trade Unions*.

(3) Industrialisation and International Trade 1880-1914

This course can be taken as an optional Special Subject for either Honours in Economic Science or Honours in History. The class will meet twice a week at times to be arranged, and a book-list will be available from Professor Youngson. The course will be concerned with the industrial developments in three or four countries during the period, together with a discussion of population growth and movements, capital movements, price changes and patterns of trade.

STATISTICS

DR. LAWLEY, Lecturer

Elements of Statistics

Three meetings a week at 4 in summer. The Elements of Statistics is a compulsory subject in the Honours examinations in Economic Science. Students reading for Honours in Economic Science may take this course in the third term of their Intermediate Honours course (see below), but not earlier; they must pass

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the degree examination before entering their final year. No exceptional standard of mathematical knowledge is expected. The course covers:—Scope and meaning of statistics; method and application of statistics; groups and series and their graphic representation; averages; curves—periodic, logarithmic, etc.; empirical formulas; interpolation; accuracy; the law of error and its application; application of statistical methods to problems of trade, production, population, etc.; elements of the theory of correlation.

Books recommended:—Bowley, *Elements of Statistics*, pt. i.

Class examination date, see p. 475.

Advanced Statistics

Three meetings a week at times to be arranged in autumn and spring. The subject of this course is an optional subject for students reading for Honours in Mathematics and Natural Philosophy, or for B.Sc. with Honours in Mathematical Science. The course covers:—Probability and mathematical expectation; the law of large numbers; the theory of dispersion; the theory of errors and of probability curves; curve-fitting; correlation; analysis of variance; estimation from sample; numerical computation; history and bibliography; practical applications.

Book recommended for preliminary reading:—Yule and Kendall, *Introduction to the Theory of Statistics*.

HONOURS EXAMINATIONS IN ECONOMIC SCIENCE

Honours Examination

Candidates must take:—

1. *Three* papers in Economics.
2. *One* paper in Economic History.
3. *One* paper in Political Science.
4. *Two* papers chosen from two of the following list of subjects:—
 - (i) Economic History;
 - (ii) Economic Statistics;
 - (iii) History of Economic Thought;
 - (iv) International Economics;
 - (v) Mathematical Economics;
 - (vi) Monetary Economics;
 - (vii) Public Finance.

Candidates must have passed the degree examination in Elements of Statistics before entering their final year and are strongly advised to take the course before entering their third year. Candidates are also advised to take the course in Comparative Constitutions before entering their third year. They must choose one of the subjects outside their Honours group from the following:—British History, Constitutional Law, Economic Geography, European History, Geography, Logic and Metaphysics, Mathematics, a modern foreign language, Moral Philosophy, Psychology.

Prescribed books.

Economics.—The following works are recommended in addition to the reading specified in the lectures:—

(a) *Principles of Economics*: L. C. Robbins, *Nature and Significance of Economic Science*; W. J. L. Ryan, *Price Theory*; E. Schneider, *Einführung in die Wirtschaftstheorie*, vol. 2-3 (vol. 2 is translated as *Pricing and Equilibrium*); American Economic Association, volume on *Readings in Price Theory*; C. P. Kindleberger, *International Economics*; J. M. Keynes, *General Theory of Employment, Interest and Money*; D. Patinkin, *Money, Interest and Prices*; W. A. Lewis, *Theory of Economic Growth*; J. A. Schumpeter, *History of Economic Analysis*; J. Duesenberry, *Business Cycles and Economic Growth*.

(b) *Special Subjects:*

(i) *Economic History:* see Optional Special Subject for Honours in Economic Science, Course B of Economic History of Britain.

(ii) *Economic Statistics:* R. G. D. Allen, *Statistics for Economists*, E. Devons, *An Introduction to British Economic Statistics*; W. Allen Wallis and Harry V. Roberts, *Statistics, a New Approach*; Central Statistical Office, *National Income Statistics, Sources and Methods*.

(iii) *History of Economic Thought:* G. Myrdal, *The Political Element in the Development of Economic Thought*; T. W. Hutchison, *A Review of Economic Doctrines, 1870-1920*; L. C. Robbins, *The Theory of Economic Policy in the English Classical Political Economy*; Sir A. Gray, *The Socialist Tradition*; Adam Smith, *Wealth of Nations*; and other selected texts of the great economists.

(iv) *International Economics:* J. Viner, *Studies in the Theory of International Trade*; J. E. Meade, *Problems of Economic Union*; A.E.A., *Readings in the Theory of International Trade*; G. D. A. MacDougall, *The Dollar Problem*.

(v) *Mathematical Economics:* R. G. D. Allen, *Mathematical Analysis for Economists*; R. G. D. Allen, *Mathematical Economics*; R. Dorfman, P. A. Samuelson and R. Solow, *Linear Programming and Economic Analysis*.

(vi) *Monetary Economics:* A. C. L. Day, *An Outline of Monetary Economics*. (See also Books recommended for this subject for Intermediate Honours course)

(vii) *Public Finance:* R. A. Musgrave, *Theory of Public Finance*; H. C. Edey and A. T. Peacock, *National Income and Social Accounting*; N. Kaldor, *Expenditure Tax*. R. A. Musgrave and A. T. Peacock (editors) *Classics in the Theory of Public Finance*.

ECONOMIC GEOGRAPHY

Dr. ROBERTSON, Senior Lecturer, and * * *, Lecturer

First Ordinary Course

Throughout this course special attention is devoted to the economic aspects of geography. It meets the needs of students proceeding to the B.Com. degree or the M.A. Ordinary degree and is an outside option for Economic Science Honours.

Class hours:—Mon., Wed. and Fri. at 12 noon with tutorials during three terms at times to be arranged.

The course comprises:—

1. Introductory lectures on the world pattern of resources and population.
2. A broad survey of the economics of major regions and selected countries in which their status both as producers and as markets will be considered in the light of their geographical conditions.
3. Geographical aspects of some general problems of industry and trade.

Recommended books:—I. *Particularly for those without previous preparation in geography.* Unstead, *A World Survey from the Human Aspect*; Pounds, *An Introduction to Economic Geography*; Gottman, *A Geography of Europe*; Stamp, *Our Undeveloped World*.

II. *More advanced.* Jones and Darkenwald, *Economic Geography* (rev. edit.); Dicken, *Economic Geography*; East and Moodie (editors), *The Changing World*; Ogilvie, *Europe and its Borderlands*; Cressey, *The Basis of Soviet Strength*; East and Spate (editors), *The Changing Map of Asia* (3rd ed.); Stamp, *Africa: a study in Tropical Development*; Gourou, *The Tropical World*; Brown, *Introduction to the World Economy*.

III *For reference.* Chisholm's *Handbook of Commercial Geography*; Oxford *Economic Atlas*; Humlum, *Atlas of Economic Geography*.

Reference will be made during the course to books and reports on various regions.

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POLITICAL SCIENCE¹

Mr. NOBBS, Senior Lecturer

Course for Honours Economics Students

The course will be divided in two parts:

(a) political theory to Karl Marx (see p. 423).

(b) Representative Government in Theory and Practice in Britain, including (1) the theory of representative and responsible government in relation to the problem of self-government; (2) the individual as voter, and the issues of proportional and functional representation; (3) the theory of the separation of powers and of responsible government; the relation of elector and parliament; the principle of ministerial responsibility and its effect on parliamentary organisation; the roles of majority and minorities in parliamentary democracy; (4) party organisation and its relation to elector, parliament and government; (5) representative government and the activities of sectional minorities in relation to parliament, ministries and public; (6) democracy and the expert; the civil service, and the question of parliamentary, including financial, control; the rule of law; independent administrative agencies; local government.

Books recommended:— G. Le May, *British Government 1914-1953; Select Documents*; S. E. Finer, *A Primer of Public Administration*; Sir I. Jennings, *Parliament* (2nd edition), and *Cabinet Government* (2nd edition); Lord Campion (ed.), *British Government since 1918*; L. S. Amery, *Thoughts on the Constitution*; D. E. Butler, *The Electoral System in Britain*; K. C. Wheare, *Government by Committees*; H. Morrison, *Government and Parliament*; J. Bulmer-Thomas, *The Party System in Great Britain*; R. T. McKenzie, *British Political Parties*; J. D. Stewart, *British Pressure Groups*; W. J. M. Mackenzie and J. W. Grove, *Central Administration in Britain*; D. N. Chester and F. M. G. Willson, *The Organisation of British Central Government 1914-1956*; Sir D. Milne, *The Scottish Office*; B. Chubb, *The Control of Public Expenditure*; S. H. Beer, *Treasury Control* (2nd edition); H. Finer, *The Theory and Practice of Modern Government* (1954); *Political and Economic Planning; Government and Industry* (1952) and *The Machinery of Government* (1941); Sir J. Anderson (Lord Waverley), *The Machinery of Government* (Romanes Lecture 1946); Lord Hankey, *Diplomacy by Conference*; D. N. Chester (ed.), *Lessons of the British War Economy*; Sir Oliver Franks, *Central Planning Control in War and Peace*; W. A. Robson (ed.), *The Civil Service in England and France*; R. V. Vernon and N. Mansergh (eds.), *Advisory Bodies*.

The paper in the Final Honours degree will include questions both on political theory to Marx and contemporary British government.

SOCIAL ANTHROPOLOGY

Dr. LITTLE, Reader and Head of Department; Dr. LITTLEJOHN,
Dr. COLLINS and Dr. BANTON, Lecturers

Ordinary Course

Mon., Tues., Thurs. and Fri. at 4. This course is a qualifying course for the Ordinary M.A. degree.

Part I.—Introduction to the Study of Primitive Society (two terms):— General principles and theory; the biological basis of human society; the relation between geographical environment and culture; the ethnography of a selected people; an outline of marriage, kinship and social organisation among primitive peoples, including economics, land tenure, political organisation, law, education and magico-religious systems; the life cycle of the individual in primitive society.

¹ This course will be offered in session 1959-60. Part A will be at 12 noon on Tues., Wed. and Fri. Part B at times to be arranged.

Part II.—Anthropology and Modern Life:—The application of anthropological methods to the study of modern communities, including a short description and analysis of some of the social institutions of urban and rural communities in Western Europe and North America.

Books recommended:—Part I.—Students should be familiar with two general works and at least two ethnographic monographs.

General works:—Evans-Pritchard, *Social Anthropology*; Firth, *Human Types*; Forde, *Habitat, Economy and Society*; Hocbel, *Law of Primitive Man*; Gluckman, *Custom and Conflict in Africa*.

Ethnographic monographs:—Evans-Pritchard, *The Nuer*, and *Witchcraft among the Azande*; Firth, *We, the Tikopia*; Fortes and Evans-Pritchard, *African Political Systems*; Little, *The Mende*; Malinowski, *Coral Gardens and their Magic*, vol. i; Nadel, *A Black Byzantium*.

Part II.—Arensberg, *Family and Community in Ireland*; Pitt-Rivers, *The People of the Sierra*; Warner, *Structure of American Life*; Whyte, *Street Corner Society*; Young and Wilmott, *Family and Kinship in East London*.

Class examination dates, see p. 475.

Intermediate Honours Course

The course will consist of two lectures per week, and a weekly discussion class of two hours' duration, at times to be arranged. It will include the course in Applied Anthropology consisting of twelve lectures to be given in the second half of the academic session. Students will be required to submit three essays on a special problem or group of problems.

Part I.—The Development of Anthropological Theory:—Ethnological thought during the eighteenth and nineteenth centuries, a short outline of modern theories of functionalism and social structure.

Part II.—Regional Ethnography:—The ethnography of selected areas in Africa, Asia and Oceania, and a detailed examination of selected aspects of the social life of modern communities.

Part III.—Applied Anthropology:—For synopsis, see below.

Books recommended:—Barnes, *Introduction to the History of Sociology*; Colson (ed.), *Seven Tribes of British Central Africa*; Durkheim, *Suicide*; Evans-Pritchard, *The Nuer*, and *Kinship and Marriage among the Nuer*; Evans-Pritchard and Fortes, *African Political Systems*; Firth, *Elements of Social Organisation*; Leach, *Political Systems of Burma*; Lévi-Strauss, "Social Structure" in *Anthropology Today* (ed. Kroeber); Lowie, *History of Ethnological Theory*; Nadel, *A Black Byzantium*; Radcliffe-Brown, *Structure and Function in Primitive Society*; Radcliffe-Brown and Forde, *African Systems of Kinship and Marriage*.

Applied Anthropology

An outline of non-literate culture, including social organisation, nature of religious belief, etc., and a description of anthropological methods in the investigation of the "simpler" societies. The problems arising out of the contact of Western and primitive peoples; a short description of the impact of European institutions—government, Christian missions, commerce, etc., on indigenous life and custom in colonial territories. Problems of "detrribalisation", racial relations, etc., and studies of experimentation in local government, social welfare, "mass education", community development, etc.

Books recommended:—(a) Acquah, *Accra Survey*; Banton, *West African City*; Batten, *Problems of African Development*, pts. I and II; Busia, *Survey of Sekondi-Takoradi*; Colson, *The Makah Indians*; Epstein, *Politics in Urban African Communities*; Gluckman, "Malinowski's Sociological Theories", *Rhodes-Livingstone Papers*, No. 16; Hogbin, *Experiments in Civilization*, Mair, *Applied Anthropology*; Read, *Education and Social Change in Tropical Areas*; Ruopp (ed.), *Approaches to Community Development*; Wilson, *Social Change*; Worsley, *The Trumpet shall sound*.

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(b) Collins, *Coloured Minorities in Britain*; Frazier, *The Negro in the United States*; Hankins, *Racial Basis of Civilization*; Hellmann (ed.), *Handbook of Racial Relations in South Africa*; Hughes, *Where Peoples Meet*; Lind (ed.), *Race Relations in World Perspective*; U.N.E.S.C.O., *The Race Question in Modern Science*.

Class examination dates, see p. 475.

Junior Honours Course

This course will consist of three lectures per week, and a weekly discussion class of one hour's duration. Students will be required to submit three essays on a special problem or group of problems. The course includes a series of lectures and exercises in elementary statistics, under Mr Sklaroff of the Department of Public Health and Social Medicine.

Part I.—Methodology in the Study of Society:—The relation of social anthropology to the other social sciences; the personality and configurationist schools; contemporary theories of social structure.

Part II.—Social Organisation:—A detailed examination of the social systems of selected primitive peoples, including kinship, law and politics, religion and magic, and economics; the role of language.

Part III.—Methods of Field Work:—The importance of theoretical orientation in field work, methods of investigation; relations with informants; the danger of subjectivity; reliability of data and documentation; critical evaluation of field records; the place of language in field investigations; field-work methods in modern communities.

Books recommended:—*Anthropological Notes and Queries*; Bartlett, *Study of Society*; Bateson, *Naven*; Durkheim, *Elementary Forms of the Religious Life*, and *Suicide*; Evans-Pritchard, *Witchcraft among the Azande*; Firth, *Polynesian Economy*, and "Function" in *Yearbook of Anthropology*, 1955; Fortes, *The Dynamics of Clanship and Web of Kinship*; Gluckman, *Judicial Process among the Barotse*; Hoebel, *The Law of Primitive Man*; Homans, *The Human Group*; Kardiner, *The Psychological Frontiers of Society*; Murdock, *Social Structure*; Nadel, *Theory of Social Structure*; Radcliffe-Brown, *Social Organisation of Australian Tribes*; Radcliffe-Brown and Forde, *African Systems of Kinship and Marriage*.

Final Honours Course

Students have the option of a course of lectures on Peasant Society or Industrial Society, and are given tuition in the ethnography of a special area chosen by themselves.

Seminar

A Seminar is held weekly during term, at times to be arranged, for members of the Honours classes, research students and the staff, at which methods of research in Social Anthropology and problems common to Social Anthropology and allied disciplines are discussed.

Course in Tropical Education

This is a course in elementary sociology and in the modern sociology of selected tropical areas. Lectures are given twice weekly throughout the session and tutorial classes are also held twice weekly. This course is designed for overseas students in training as teachers, and for missionaries preparing for evangelical work overseas, but it is also open to other suitable students.

HONOURS CURRICULUM IN SOCIAL ANTHROPOLOGY

Curriculum—The normal curriculum of the degree with Honours in Anthropology is as follows:—

1st Year:

Social Anthropology I.
Geography I.
Outside subject.

2nd Year:

Social Anthropology II (Intermediate Honours).
Geography II.
Human Geography (if not taken in third year) *or* outside subject.

3rd Year:

Social Anthropology III (Junior Honours).
Human Geography (if not taken in second year) *or* outside subject, if still not taken.

4th Year:

Social Anthropology IV (Final Honours).
Psychology First Ordinary course must be taken as one of the subjects outside the Honours group.
Candidates are required to obtain passes in the degree examinations in Social Anthropology I, Geography I, Social Anthropology II, Geography II and Psychology I, in addition to the other outside subject.

Honours Examination

The Final Examination consists of the following papers in addition to a short dissertation.

1. Anthropological Theory, including the history of ethnological thought.
2. Social Organisation A, including Kinship, Law and Politics.
3. Social Organisation B, including Religion and Economics.
4. The Ethnography of a special area.
5. Methods of Social Research.
6. Problems of Social Change, *or* Race Relations.
7. Peasant Society, *or* Industrial Society.

Candidates are required to satisfy the examiners that they have previously reached Honours standard in Human Geography (as for Honours in Geography).

Candidates for the Honours degree must have acquired a reading knowledge of French or German by the beginning of the second year of study, and this will be tested during the Intermediate Honours course unless the student holds a degree pass in either of these subjects.

It is recommended that students for this Honours group attend the general course of lectures entitled "History, its nature and methods", and the course of General Linguistics (part of the Ordinary course in English Language).

Library

The Departmental Library is housed at 3 Buccleuch Place and is open during term to members of all Social Anthropology classes and to research students.

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(C) Department of Science

MATHEMATICS

PROFESSOR AITKEN; Dr. EDGE, Reader; Dr. ETHERINGTON, Senior Lecturer; Dr. COSSAR, Dr. MOTT, Mr. PALMER, Dr. HEYWOOD and Mr. MCLEOD, Lecturers. *Technical Mathematics*.—Dr. BROWN, Senior Lecturer; Mr. MACKENZIE, Dr. FULTON and Mr. LUCAS, Lecturers. *Actuarial Science*.—Mr. WALKER and Mr. SKINNER, Lecturers.

(a) First Ordinary Course

Daily at 9 during the autumn and spring terms, and on Mon., Wed., Thurs. and Fri. at 9 during the summer term. Two of the class hours per week will generally be devoted to tutorial work, which is obligatory on all members of the class. The work of the course embraces:—Geometry; algebra; trigonometry; elements of coordinate geometry; graph tracing; and calculus. Lectures on the history and philosophy of mathematics may be included. Entrance qualification for this class is a pass in Mathematics on the Lower Standard in the Leaving Certificate of the Scottish Education Department or its equivalent.

Class examination dates, *see* p. 474.

(b) Second Ordinary Course

Daily at 12 during the autumn and spring terms, and on Mon., Wed., Thurs. and Fri. at 12 during the summer term. Two of the class hours per week will generally be devoted to tutorial work, which is obligatory on all members of the class. This course is usually taken by candidates for the degree of M.A. with Honours in Mathematics and Natural Philosophy in their *first* year, and by candidates for the Ordinary degree of M.A. in the *second* year of their study of the subject. For those proceeding directly to this class a pass in Mathematics on the higher standard or its equivalent is required. The work of the course embraces:—Algebra; interpolation; probability; differential and integral calculus; and analytical geometry. Knowledge of analytical geometry of the straight line and circle is assumed.

Class examination dates, *see* p. 474.

(c) First Technical Course

Mon. and Thurs. at 9, and Mon., Wed. and Fri. at 10 in autumn and spring; and Mon., Wed. and Thurs. at 10 in summer. The work includes: Solution of equations, elementary theory of equations, determinants, the binomial theorem, application of graphs to algebraic and numerical problems; trigonometry with applications to mensuration, complex numbers, hyperbolic functions; coordinate geometry of the straight line, circle and plane; differential calculus with applications to errors, rates, stationary values and curve tracing; introduction to integral calculus with applications to areas and volumes; expansion of functions as power series.

Class examination dates, *see* p. 475

(d) Second Technical Course

Wed. (King's Buildings) and Fri. (Math. Inst.) at 9, and Thurs. (King's Buildings) and Fri. (Math. Inst.) at 10, in autumn and spring; and Mon., Thurs. (King's Buildings) and Fri. (Math. Inst.) at 9 in summer. The work includes:—Systematic integration, line integrals, double integrals, with applications to polar coordinates, lengths, areas, volumes, centroids, mean values and second moments; partial differentiation; ordinary differential equations; simple coordinate geometry of the conic sections, curvature; numerical methods of integration, interpolation and solution of equations, least squares.

Class examination dates, *see* p. 475.

(e) First Course in Actuarial Science

Daily at 12 in autumn and spring; and on Mon., Wed., Thurs. and Fri. at 12 in summer.

(f) Intermediate Honours Course

Daily at 11 in autumn and spring; and Mon., Wed., Thurs. and Fri. at 11 in summer. The course embraces:—Algebra; differential and integral calculus; differential equations; and analytic and projective geometry.

Class examination dates, *see* p. 474.

(g) Second Course in Actuarial Science ¹

In autumn Mr. Walker lectures in the Hall of the Faculty of Actuaries on Wed. and Fri. at 5.30 p.m. on Interest and Annuities—Certain, with Construction of relative Tables. In the eighth week of the autumn term Mr. Skinner begins a course of lectures on Wed. and Fri. at 5.15 p.m., which is continued throughout the spring term, in the Hall of the Faculty of Actuaries, on Life and other Contingencies. During the spring term, diploma students attend also the Mathematical Laboratory course (k) four hours weekly at times to be arranged. In summer lectures and tutorials will be provided in the Mathematical Institute at times to be arranged on mathematical subjects for the diploma examination.

(h) The Foundations of Analysis ²

Three hours weekly at 10 in autumn. The course includes:—The convergence of infinite processes; continuity; uniformity; integration; and the fundamental theorems of the calculus.

(i) General Analysis ²

In alternate years (1959-60, 1961-62, etc.) three hours weekly at 10 in spring, and (1960-61, etc.) two hours weekly at 10 in autumn and spring. The course includes some of the following topics:—Contour integration; the gamma function; Fourier's theorem; Legendre and Bessel functions; elliptic functions; partial differential equations; and calculus of variations.

(j) Algebra and Geometry ²

In alternate years (1959-60, 1961-62, etc.) two hours weekly at 10 in autumn and spring, and (1960-61, etc.) three hours weekly at 10 in spring. The course includes some of the following topics:—Determinants; matrices; groups; tensors; analytical geometry; projective geometry; differential geometry; non-Euclidean geometry; and relativity.

(k) Mathematical Laboratory Course

Four hours weekly, at times to be arranged, in spring. The course relates to the subjects treated in Whittaker and Robinson's *Calculus of Observations*.

(l) Advanced Statistics (*see* Index)

(m) Post-Graduate and Research Lectures

The Professor lectures to the research students and post-graduate workers on current developments in mathematical science. The principal aim of the lectures is to bring into prominence topics suitable for original investigation. The hours of the lectures are arranged at the beginning of the session.

¹ The lectures in the Hall of the Faculty of Actuaries are at present replaced by a correspondence course, and by discussion classes held at times to be arranged during the winter months in the Hall of the Faculty of Actuaries.

² Tutorial classes in connection with courses (h), (i), (j) are held on Tuesdays and Thursdays in autumn and spring. Revision tutorials for Honours students are held on Mondays and Thursdays at 10 in summer.

Faculty of Arts

Double Course for the Ordinary M.A. Degree

The following combinations of the above courses are recognised as constituting double courses in Mathematics for the Ordinary degree of M.A., the courses to be taken in the order in which they are named:—I, (a) and (b); II, (c) and (d); III, (b) and (f).

DEGREE EXAMINATIONS

The degree examinations for courses (c) and (d) will be respectively the first and second examination in Mathematics for Engineering; and that for (f) the Intermediate examination. For the subjects of examinations see under courses above.

For the subjects of examination for Honours in Mathematics and Natural Philosophy, *see* Index.

Mathematical Laboratory and Library

This laboratory, which is under the direction of the Professor and the Lecturers in Mathematics, affords students a training in the science and art of calculation, and the performance of various types of numerical computation by the aid of mathematical tables and calculating machines, as required in the practical applications of Mathematics.

The Research Room in the Mathematical Institute contains an extensive library of mathematical periodicals and advanced works on Mathematics. There is also a collection of text-books on all the branches of Mathematics. Students are asked to consult the Professor or the Lecturers regarding text-books suitable for their own reading.

MATHEMATICAL PHYSICS

PROFESSOR KEMMER; Dr. SCHLAPP and Mr NISBET, Senior Lecturers;
Dr. PURSEY, Dr. CANDLIN and Dr. SCREATON, Lecturers

Ordinary Course ¹

Daily at 10 during the three terms, two meetings per week being in general for tutorial instruction. The course is intended as an introduction to the ideas of mathematical physics. The Ordinary course followed by the Intermediate Honours course constitutes a double course for the Ordinary degree of M.A.

Class examination dates, *see* p. 474.

Intermediate Honours Course

Daily at 12 during the three terms, two meetings per week being in general for tutorial instruction. The course deals with topics in vector algebra, the mechanics of systems of particles and rigid bodies, vector analysis and the elementary theory of the potential.

Class examination dates, *see* p. 474.

Honours and Advanced Honours Courses

Daily at 11 during the three terms, and daily at 12 during the autumn and spring terms, with additional tutorials, the curriculum normally extending over five terms. Courses deal with dynamics, theory of sound, hydrodynamics, electromagnetic theory, relativity, thermodynamics, statistical mechanics and quantum mechanics.

¹ Entrance qualification: Higher Mathematics or equivalent.

Courses of Instruction (Science)

For the subjects of examination for Honours in Mathematics and Natural Philosophy, *see* Index, and the degree examination time table on p. 479.

Mathematical Physics Library

The library is primarily a research library, but contains a number of advanced text-books relevant to the Honours and Advanced Honours courses. Students attending those courses are encouraged to use the library for reference.

NATURAL PHILOSOPHY

PROFESSOR FEATHER; DR. MARION ROSS, Reader; DR. EVANS, DR. FARAGO and DR. BROWN, Senior Lecturers; MR. KYLES, MR. SILLITTO, DR. MCINALLY, DR. MUIR, DR. KENNEDY and DR. BURNS, Lecturers. *Meteorology*:—MR. PATON, Reader; MR. MCINTOSH, Lecturer. *Radiochemistry*:—DR. SUTTON, Senior Lecturer.

First and Second Ordinary Courses

The work of these classes is conducted by means of lectures, laboratory classes and tutorials.

First Ordinary.—Lectures are given on Mon., Wed. and Fri. at 11. The course is designed for students studying for the Ordinary degree of M.A., and will give a survey of the scope and methods of Physics. Students entering the class should have obtained a pass in Mathematics on the lower standard in the Scottish Leaving Certificate, or equivalent qualification.

Students are required to take a laboratory course of 50 hours, attending one two-hour period per week at times to be arranged.

Tutorial instruction relevant to the lecture course is given, at times to be arranged; students attend one hour per week.

Second Ordinary.—Lectures are given on Tues. and Thurs. at 11, and Fri. at 4, and include: General Physics, Heat, Electricity and Magnetism, Light, and Sound. The Second Ordinary course is designed for students studying for the degree of M.A. with Honours in Mathematics and Natural Philosophy, and, as following the First Ordinary course, is available for students requiring a double course in Natural Philosophy for the Ordinary degree of M.A. All such students must have obtained a pass in Mathematics on the higher standard in the Scottish Leaving Certificate, or a pass in First Ordinary Mathematics, or equivalent qualification. Students who are admitted to the Second Ordinary course without having taken the First Ordinary course must also be attending, or have attended, Ordinary Mathematical Physics; they are expected, in addition, to have a pass in Higher Science (including Physics), and will find it advantageous to have a pass in Additional Mathematics (Dynamics and Elementary Analysis) in the Scottish Leaving Certificate, or in Applied Mathematics, at the advanced level, in the General Certificate of Education, or equivalent qualification.

Students are required to take a laboratory course of 75 hours, attending one three-hour period per week.

Tutorial instruction relevant to the lecture course is given at times to be arranged; students attend one hour per week.

The Degree Examination in each course consists of two written papers.

Class examination dates, *see* p. 474.

Double Courses for the Ordinary M.A. Degree

In addition to the combination First and Second Ordinary courses in Natural Philosophy (*see* above), the combination Second Ordinary Natural Philosophy followed by Intermediate Honours Natural Philosophy is recognised as constituting a double course in Natural Philosophy.

Faculty of Arts

Intermediate Honours Course

No student will be admitted to this course before passing the degree examination in Second Ordinary Natural Philosophy.

Lectures for Intermediate Honours Natural Philosophy are given daily at 9. The lectures treat of Electricity, Optics, Heat and Thermodynamics, General Physics and Elementary Atomic Theory.

Laboratory.—Intermediate Honours students are recommended¹ to take a course of 150 hours, attending two three-hour periods per week allocated from the following:—Mon. and Fri., or Tues. and Thurs. 2-5.

Tutorials.—Tutorial sheets will be issued at intervals in connection with the course, and time will be devoted as occasion offers during the lectures to work through selected questions.

The degree examination consists of two written papers.

Honours Course²

No student will be admitted to this course before passing the degree examination in Intermediate Honours Natural Philosophy.

Students intending to proceed to the Honours course are recommended to obtain from their Director of Studies, at the end of the summer term of their Intermediate Honours year, advice concerning vacation reading in preparation for the Honours course.

Lectures are given on Mon., Wed. and Fri. at 9 and 12.

Laboratory.—Honours students are recommended¹ to take a course of 200 hours (Mon., Thurs. and Fri., 2-5 throughout the session).

In the degree examination for M.A. with Honours in Mathematics and Natural Philosophy (Type A) the work of this course is covered by three written papers.

Physical Laboratory

The laboratory is open to students during the three terms from 9 to 5, Monday to Friday each week.

Natural Philosophy Library

The library is used for reference by the Ordinary class, and as a lending and reference library by the classes of later years.

DEGREE OF M.A. WITH HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY¹

Curriculum.

The curriculum for the degree of M.A. with Honours in Mathematics and Natural Philosophy should conform to one of the following two types:—

Type A.—Four courses in Mathematics (one in each year); two courses in Mathematical Physics; three courses in Natural Philosophy; and two courses in subjects outside the Honours group.

¹ Qualification for the Teacher's Special Certificate in Physics under Chapter V of the *Regulations* (see pp. 295-6) is possible only on the basis of Type A curriculum, and only then if a total of 400 hours' attendance at classes in Practical Physics has been given (75 hours in first year). At the conclusion of the course a certificate of satisfactory performance will be required for which application should be made to the Professor of Natural Philosophy.

² The lectures in the final honours course are the same as the compulsory lectures for Physics III (see under Faculty of Science).

Courses of Instruction (Science)

Type B.—Four courses in Mathematics (one in each year); four courses in Mathematical Physics; one course in Natural Philosophy; and two courses in subjects outside the Honours group.

Intermediate Honours Examinations

Intermediate Honours examinations in Mathematics, in Mathematical Physics and in Natural Philosophy are held at the end of the summer term and again before the beginning of the autumn term, relating to the work of the first two years in these subjects respectively.

A student will not be admitted to the third year of the Honours curriculum unless he has a merit certificate in at least one of the Intermediate Honours lecture courses in Mathematics, Natural Philosophy and Mathematical Physics. This condition will not be waived except with the express permission of the Professors concerned.

Honours Examinations

For Type A curriculum, Honours will be awarded on the basis of three papers in Mathematics and three papers in Natural Philosophy. For Type B curriculum, Honours will be awarded on the basis of two papers in Mathematics, two papers in Mathematical Physics and two other papers selected from the papers in Mathematics and Mathematical Physics. For both Types, the papers in Mathematics must include the paper on Foundations of Analysis and Calculus, and *either* the paper on General Analysis *or* that on Algebra and Geometry; the paper on Advanced Statistics may be counted only as an alternative to the paper on Mathematical Laboratory. For Type B the papers in Mathematical Physics must include those on Dynamics and Electromagnetic Theory.

METEOROLOGY

MR. PATON, Reader; and MR. MCINTOSH, Lecturer

Four days weekly at 11, during three terms, with two hours weekly, at times to be arranged, for tutorial instruction and practical exercises. Students of the course are expected to have an elementary knowledge of mechanics, general physics and heat.

The syllabus includes:—1. Introduction—History of the development of meteorology; meteorological instruments and observations; the distribution of the meteorological elements over the globe; the physics of water vapour; elementary theory of radiation. 2. Physical Meteorology—Radiation phenomena in the atmosphere; conditions of stability for unsaturated and saturated air; the use of adiabatic diagrams; condensation nuclei; the formation of cloud, precipitation and fog; the upper atmosphere. 3. Dynamical meteorology—Derivation and application of the geostrophic and gradient wind equations; variation of wind with height in the atmosphere; cyclones, anticyclones and the general circulation. 4. Synoptic meteorology—Air masses and fronts; the use of sea level and upper air charts in weather forecasting. 5. Atmospheric optical phenomena. 6. Elements of terrestrial magnetism; the magnetic storm and aurora. 7. Elements of atmospheric electricity; the thunderstorm.

Class examination dates, see p. 474.

ASTRONOMY

PROFESSOR BRÜCK; and DR. SMYTH, Lecturer

Sixty or more lectures at the Mathematical Institute on Mon. and Fri. at 3, and Wed. at 5, and about twenty meetings at the Royal Observatory on Tues. or Thurs. from 5.30 to 7.30 for tutorial instruction and practical exercises. Students should have a knowledge of mathematics as represented by the First Ordinary course in mathematics, and of dynamics as represented by the Preliminary examination.

Faculty of Arts

This course aims at being an introduction into (a) positional astronomy, (b) astrophysics, and (c) stellar astronomy.

(a) will include:—spherical coordinates of stars; effects of refraction, precession, nutation, aberration and parallax; definition of time; determination of longitude and latitude; planetary motions; observational methods of positional astronomy.

(b) will include:—physical characteristics of stars; magnitudes, colours, spectra, masses, luminosities; stellar atmospheres and interiors; the sun and the solar system; double stars, variables and novæ; interstellar gas and dust; observational methods of astrophysics.

(c) will include:—distributions and motions of stars and interstellar matter; star clusters and stellar systems; stellar populations; the structure of our galaxy and of external galaxies; evolution of stars and galaxies.

Class examination dates, *see* p. 473.

Astronomical Library

The library, which contains the Ramsay Memorial Collection, is a reference and lending library for the use of students taking courses in Astronomy and Astrophysics. It is housed at the Royal Observatory where it forms a special part of the Observatory's main library.

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; Dr. RITCHIE and Dr. CAMPBELL, Readers; Dr. T. R. BOLAM and Dr. CHRISTINA MILLER, Senior Lecturers; Dr. BEEVERS, Dr. TAYLOR, Dr. ASPINALL, Dr. ELIZABETH PERCIVAL, Dr. MANNERS, Dr. GREENWOOD, Dr. KNOX, Dr. TROTMAN-DICKENSON, Dr. ANDERSON, Dr. ROSSOTTI, Dr. SCHWARZ and Dr. LEAVER, Lecturers.

First Course

The entrance qualifications are a pass on the higher standard in Science (including Chemistry) in the Leaving Certificate, or some equivalent evidence of proficiency, or a pass in Chemistry on the higher standard in the Preliminary examination. The lecture part of the course is given on Mon., Wed. and Fri. at 9.30. For tutorial work, which is obligatory, the class may be divided into sections which will meet at hours to be arranged. The subjects treated in the lectures will include:—General chemistry; the chemistry of the more important metallic and non-metallic elements, with particular reference to the Periodic Classification; an introduction to Physical Chemistry; an introduction to Organic Chemistry. The laboratory part of the course (at least two hours twice a week during the three terms) will include:—Volumetric and gravimetric analysis; systematic qualitative inorganic analysis; the preparations and reactions of simple organic compounds.

Class examination dates, *see* p. 472.

Second Course

The lectures are given on Mon., Wed. and Fri. at 12.30. The subjects are:—Advanced Inorganic Chemistry, chemical theory, Physical Chemistry; and Organic Chemistry. Fifteen hours weekly must be given to laboratory and tutorial work. The laboratory work includes:—Quantitative estimations; qualitative analysis; the preparation of typical organic substances; and simple physico-chemical experiments.

Class examination dates, *see* p. 472.

Chemical Laboratories

The laboratories, which are open daily from 9.30 to 4.30 during terms, contain the necessary equipment for a complete course of instruction in the various branches of chemical work and research.

Chemistry Museum and Library

The museum, founded by Professor (afterwards Lord) Playfair, has been enriched by gifts from chemical manufacturers and others, and by substances prepared in the laboratories. The library, which was founded by Professor Crum Brown, and which contains over 10,000 volumes, is open during the terms for reference daily from 10 to 1 and from 2 to 4.45 (Sat. 10 to 12).

Romanes Lecture

The next Romanes Lecture will be delivered on a date to be announced later.

ZOOLOGY

PROFESSOR SWANN; Senior Lecturers; and Lecturers

First Course

Mon., Wed. and Fri. from 2-5. The course aims at being an Introduction to the Science of Life, and deals with the physics and chemistry of protoplasm, the origin of life, the structure and activities of cells, the problems of growth and development, the nature of inheritance, the organisation and functioning of a range of animals of increasing complexity, the idea of evolution, the nervous system and behaviour, animals of economic importance and the study of populations.

Second Course

Mon., Wed. and Fri. from 2-5, and another period of three hours for practical work. There are two courses available: one surveying the whole animal kingdom at an advanced level, and the other dealing with experimental biology, especially cell and general physiology, embryology, behaviour and applied biology.

BOTANY

PROFESSOR BROWN; Dr. NELSON, Reader; Dr. BLYTH, Dr. BROOK, Dr. DAVIS, Dr. HEYES, Mr. LYALL and Mr. ROBERTS, Lecturers

Ordinary Course

Mr. ROBERTS and Mr. LYALL, Lecturers

The class is dual and meets in two units (A and B): the A class for lectures and practicals on Tues. and Thurs. 2-5 p.m. and Sat. 9 a.m.-12 noon; the B class on Mon., Wed. and Fri. 2-5 p.m. Both classes continue through three terms. At times during the course there will be excursions during class hours for the practical study of plants in the field.

The two classes follow the same general syllabus but the treatment of the subject will differ. Ordinary Botany (A) caters for students intending to go on to further study of plant science, while Ordinary Botany (B) is for all those who have no desire or need to study botany for more than one year.

The subjects of both courses are:—Morphology and anatomy of phanerogamic plants and their physiology, the life histories of selected types of cryptogamic plants and, in the summer, ecology and the identification (systematics) of phanerogams.

Text-book:—Nelson, *Introductory Botany*.

Class examination dates, see p. 472.

Faculty of Arts

Second Ordinary Course

Lectures and practical work on Mon., Wed. and Fri. from 9-12, and another period of three hours for practical work in the summer term. Courses will be given in the following subjects:—Physiology; ecology; angiosperm taxonomy; cryptogamic botany including mycology. Excursions are held during the year.

Laboratory

The University laboratory at the Royal Botanic Garden is open daily for the practical study of plants and botanical research.

GEOLOGY AND MINERALOGY

PROFESSOR STEWART; DR. CRAIG, DR. BLACK, MR. DUFF, DR. WALTON
DR. JOHNSTON, DR. MERCY and MR. HALLAM, Lecturers

First Ordinary Course

Lectures and practical work daily Mon. to Fri. from 9.30 to 10.30. The lectures cover the general principles of geology. The practical work embraces the study of the physical and chemical properties of the more important minerals and rock types; the characters and distribution in time of the more important classes and genera of fossils; and the methods of construction and interpretation of geological maps and sections.

Students are expected to attend field excursions at times to be arranged (including Saturday).

Class examination dates, *see* p. 473.

Second Ordinary Course

Lectures and practical work on Tues. and Thurs. from 9.30 to 12.30 during the three terms and a further period of six hours per week to be arranged. The work will include more advanced study of minerals, rocks and fossils and their distribution in time, together with the construction and interpretation of geological maps and sections.

Students are expected to attend field excursions on Saturday or at times to be arranged.

Class examination dates: As announced in class.

Geological Laboratories

The laboratories are open daily from 9 to 5 during terms.

Geological Library and Cockburn Museum

The library, founded by Professors Sir Archibald and James Geikie, is used as a reference and lending library by students taking courses in Geology. The museum, formed for class purposes and named after its first Curator, Dr. A. M. Cockburn, shows the characters of minerals and rocks, and the typical materials of the various geological systems.

GEOGRAPHY

PROFESSOR WATSON: Dr. GEDDES, Mr. MACPHERSON, Dr. SISSONS, Dr. ELLIOTT, * * *, Dr. JONES, Lecturers; Dr. TAYLOR, Temporary Lecturer. *Economic Geography*:—Dr. ROBERTSON, Senior Lecturer. *Cartography*:—Mr. MACGREGOR and Mr. KLAWE, Lecturers.

First Ordinary Course

The First Ordinary course serves both as an introduction to geography for students taking the Ordinary degree and as the first course for those intending to proceed to Honours.

Class hours:—Mon., Wed. and Fri. at 9, with a two-hour practical class on Tues. or Thurs. at a time to be arranged, and a fortnightly tutorial period. The course consists of a survey of world systematic geography and will include selected topics from the following fields: an introduction to the physical basis of geography; the principles of social and economic geography.

Books recommended:—Lake, *Physical Geography*; Peel, *Physical Geography*; Stamp, *The Earth's Crust*; Holmes, *Principles of Physical Geology*; Kimble, *The Weather*; Air Ministry, *The Weather Map*; Hardy, *The Geography of Plants*; Brade-Birks, *Good Soil*; Finch and Trewartha, *The Elements of Geography*; Davis, *Earth and Man*; James, *The Geography of Man*; Unstead, *A World Survey*; Watson, *General Geography*; Briault and Hubbard, *An Introduction to Advanced Geography*.

Class examination dates, *see* p. 473.

Second Ordinary Course

Entrance qualification:—The same as for the Intermediate Honours course.

Students admitted to the course attend the Intermediate Honours class Part A (Regional Geography) and a weekly tutorial on cartography. They shall also participate in the field work of the Intermediate Honours course.

Class examination dates, *see* p. 473.

DEGREE EXAMINATION

The examination is on the same papers as that for Intermediate Honours, but the standard for a pass is not so high.

Intermediate Honours Course

Entrance qualifications:—The student shall have (a) obtained a merit certificate in the First Ordinary class, or have been specially exempted from this qualification, and (b) passed the degree examination.

The Intermediate Honours course consists of two parts:—(A) Regional Geography of selected areas; (B) an introduction to Cartography.

Part (A), REGIONAL GEOGRAPHY, will be given on Mon., Wed. and Fri. at 12, with a seminar and a two-hour practical at times to be arranged. It will embrace the study of the British Isles, France, inter-tropical Africa and S. and S.E. Asia.

Books recommended:—Daysh, *Studies in Regional Planning*; Ogilvie, *Great Britain, Regional Essays*; Stamp and Beaver, *The British Isles*; British Association Handbook, *Scientific Survey of S.E. Scotland*; Cairncross, *The*

Faculty of Arts

Scottish Economy; Darling, *Natural History of the Highlands and Islands*; Graham, *Social Life of Scotland in the 18th Century*; Hamilton, *Industrial Revolution in Scotland*; Darby, *Historical Geography of England*; Gottman, *A Geography of Europe*; Hoffman, *The Geography of Europe*; Ogilvie, *Europe and its Borderlands*; Shackleton, *Europe, A Regional Geography*; Evans, *France*; de Martonne, *Geographical Regions of France* (English trans.); Fleure, *French Life and its Problems*; Cholley, *La France*; Gourou, *The Tropical World*; Fitzgerald, *Africa*; Hailey, *African Survey*; Stamp, *Africa, a study in Tropical Development*; Buchanan and Pugh, *Nigeria: Church, Modern Colonization and West Africa*; Cressey, *Asia's Lands and Peoples*; Dobby, *S.E. Asia*; Spate, *India and Pakistan*; Stamp, *Asia*.

Part (B), INTRODUCTORY CARTOGRAPHY, will consist of a lecture on Tues. at 12 and a tutorial and a two-hour map class, at times to be arranged. It will outline:—the history of cartography; map construction, compilation, reproduction, analysis and appraisal; methods of mapping relief; and statistical and diagrammatic representation.

Books recommended:—Raisz, *General Cartography*; Monkhouse and Wilkinson, *Maps and Diagrams*; Hinks, *Maps and Survey*; Director-General Ordnance Survey, *A Description of O.S. Large-scale Maps, of O.S. Medium-scale Maps, of O.S. Small-scale Maps*; Birch, *Maps, Topographical and Statistical*; Crone, *Maps and their Makers*.

Field work is integral to the course and occupies a four-day period in October immediately before the opening of term, a week either in April or in June and several half or whole days during the session. Students should be prepared to spend about £15 on field work during the session.

Honours Courses

The Honours courses shall comprise Junior Honours in the third and Senior Honours in the fourth year. Junior Honours shall consist of three courses: Advanced Cartography, Physical Geography and Regional Geography. Senior Honours shall consist of Economic Geography, Human Geography and a special option course to be chosen from various fields of study as indicated. Prospective Honours students must obtain a merit certificate in the Intermediate Honours course, or be specially exempted. Before proceeding to the Honours courses students must have obtained a pass at the First Ordinary level in one of the following: Geology, Botany, Zoology, Mathematics, Meteorology. The subject chosen from this group does not form one of the two outside subjects required, but shall be an integral part of the Honours course. A reading knowledge of a modern foreign language is highly desirable. Field excursions and a dissertation based on field work form integral parts of these Honours courses.

Junior Honours

(i) Advanced Cartography

Mr. MACGREGOR, Mr. KLAWE and Dr. ELLIOTT

The course will consist of one lecture, one tutorial and one map laboratory per week. It will include:—the theory, construction and practical application of map projections; photogrammetric methods of transferring data from aerial photographs to maps, involving both theoretical and practical work; the geographic interpretation of aerial photographs; the elements of map making, from surveying in the field; the production of economic and social maps, from data obtained by field investigation.

Books recommended:—Monkhouse and Wilkinson, *Maps and Diagrams*; Raisz, *General Cartography*; Birch, *Maps, Topographical and Statistical*; Hinks, *Maps and Survey*; H.M.S.O., *Textbook of Topographical Surveying*; G. P. Kellaway, *Map Projections*; C. A. Hart, *Air Photography applied to*

Courses of Instruction (Science)

Surveying; American Society of Photogrammetry, *The Manual of Photogrammetry*; Whitmore, *Advanced Surveying and Mapping*; Brinker and Taylor, *Elementary Surveying*; Walker, *Geography from the Air*.

(ii) Physical Geography

This course will consist of three lectures per week and two map laboratories and will outline the geographical aspects of geomorphology, climatology and biogeography.

Geomorphology ¹

Dr. SISSONS

The topics to be studied will include:—Weathering; mass movement; slope retreat. River erosion and deposition; polycyclic landforms; denudation chronology of Britain; cartographical analysis of relief. Types and characteristics of glaciers; glacial erosion and deposition; periglacial phenomena. Landforms of limestone regions. Landforms of arid and semi-arid regions. Geomorphology of shorelines; topography of the sea-bed.

Books recommended:—S. W. Wooldridge and R. S. Morgan, *The Physical Basis of Geography*; W. D. Thornbury, *Principles of Geomorphology*; C. F. S. Sharpe, *Landslides and Related Phenomena*; S. W. Wooldridge and D. L. Linton, *Structure, Surface and Drainage in South-East England*; R. F. Flint, *Glacial and Pleistocene Geology*; F. T. Thwaites, *Outline of Glacial Geology*; J. Tricart and A. Cailleux, *Cours de géomorphologie*; C. A. Cotton, *Climatic Accidents*; J. A. Steers, *The Coastline of England and Wales*; F. P. Shepard, *Submarine Geology*; Ph.H. Kuenen, *Marine Geology*; A. Guilcher, *Coastal and Submarine Morphology*.

Climatology

Mr. MACPHERSON

The topics to be studied will include:—the general circulation of the atmosphere; dynamic and statistical climatology; climatic changes; local and micro-climates; methods of climatic classification and description; climates of selected regions. Laboratory work will consist of the interpretation and graphical representation of climate statistics.

Books recommended:—Hare, *The Restless Atmosphere*; Petterssen, *Introduction to Meteorology*; Trewartha, *An Introduction to Climate*; Haurwitz and Austin, *Climatology*; Manley, *Climate and the British Scene*; A. A. Miller, *Climatology*; Geiger, *Climate near the Ground*; Brooks, *Climate through the Ages and The English Climate*.

Biogeography

Mr. MACPHERSON

The topics to be studied will include:—principles of plant growth and distribution: plant communities and successions: principles of soil formation: soil classification: climax plant formations of the world and their related major soil groups (zonal soils)—their use and modifications by man: inter-zonal and azonal soils: soil erosion: plant associations and soils of the British Isles with particular reference to the influence of man thereon: principles of vegetation and soil surveying and mapping. The study of the ecology of the British Isles will be supplemented by instruction and work in the field.

Books recommended:—Jacks, *Soil*; Robinson, *Good Grassland*; Brade Birk, *Good Soil*; Tansley, *Britain's Green Mantle and Introduction to Plant Ecology*; Pearsall, *Mountains and Moorlands*; Russell, *Soil Conditions and*

¹ This also constitutes the special course in Geography for the degree of M.A. with Honours in Archaeology.

Faculty of Arts

Plant Growth and The World of the Soil; Edlin, *Trees, Woods and Man*; Matthews, *Origin and Distribution of the British Flora*; U.S. Dept. of Agriculture, *Soils and Men*.

(iii) Regional Geography

PROFESSOR WATSON; Mr. MACPHERSON and * * *

This course will survey the regional geography of, and study in detail selected regions in, N. America, Europe and the U.S.S.R.

North America

PROFESSOR WATSON

Three lectures, one laboratory per week in the autumn term: the major natural and cultural regions of N. America, with special emphasis on the geography of the U.S.A.

Books recommended:—G. J. Miller, A. E. Parkins and B. Hudgins, *Geography of N. America*; J. R. Smith and M. O. Phillips, *N. America*; White and Foscoe, *Regional Geography of Anglo-America*; R. H. Brown, *Historical Geography of the United States*; R. V. Harlow, *The Growth of the United States*; C. O. Paulin and J. K. Wright, *Historical Geography of the United States*; A. L. Burt, *The United States, Great Britain and British North America*; J. B. Brebner, *The North Atlantic Triangle*; Eardley, *Structural Geology of N. America*; W. W. Atwood, *The Physiographic Provinces of N. America*; A. P. Coleman, *The Last Million Years*; C. F. Brooks and A. J. Connor, *Climatic Maps of N. America*; Wolfanger, *Major Soil Divisions of the United States*; Wright, *United States and Canada, an Economic Geography*; H. H. McCarty, *The Geographic Basis of American Economic Life*; Queen and Carpenter, *The American City*; G. S. Perry, *Cities of America*; W. C. Hallenbeck, *American Urban Communities*; D. F. Putnam (ed.), *Canadian Regions*; G. Taylor, *Canada*.

Europe and the U.S.S.R.

Western Europe.—Mr. MACPHERSON

Eastern Europe and U.S.S.R.—* * *

Three lectures, one laboratory per week in the spring and summer terms: the geography of selected countries of Europe, with the U.S.S.R.

Books recommended:—M. R. Shackleton, *Europe, A Regional Geography*; J. Gottman, *A Geography of Europe*; G. W. Hoffman (ed.), *Europe*; A. G. Ogilvie, *Europe and its Borderlands*; W. G. East, *An Historical Geography of Europe*; E. de Martonne, *Europe Centrale* (Géographie Universelle); P. George and J. Tricart, *L'Europe Centrale* (Orbis); A. Guilcher and J. Beaujeu-Garnier, *L'Europe du Nord et du Nord-Ouest*, Tome I (Orbis); P. Birot and J. Dresch, *La Méditerranée et Le Moyen-Orient* (Orbis); R. E. Dickinson, *Germany and The Regions of Germany and The German Lebensraum*; N. J. G. Pounds, *The Ruhr*; J. A. Hawgood, *The Evolution of Germany*; N. Krebs (ed.), *Landeskunde von Deutschland*; Gregory and Shave, *The U.S.S.R., A Geographical Survey*; Jorré (trans. Laborde), *The Soviet Union*; Berg, *Natural Regions of the U.S.S.R.*; Baransky, *Economic Geography of the U.S.S.R.*; Goodall, *Soviet Russia in Maps*.

Senior Honours

(i) Economic Geography

Dr. ROBERTSON and Dr. ELLIOTT

Three lectures, one laboratory per week in the autumn and spring terms.

The course is concerned with the geographical aspects of world economic development as it affects population and resources. It includes the geography of agriculture, fisheries, forests, minerals, sources of energy, manufacturing

industry, investment, transport, trade and communications. In addition to the more general treatment, special consideration will be given to selected regions and industries and to particular problems of current interest. Attention will also be given to the construction of economic maps and diagrams.

Books recommended:—Zimmerman, *World Resources and Industries* (2nd ed.); Lütgens, *Erde und Weltwirtschaft*; Jones and Darkenwald, *Economic Geography* (rev. edit.); Smith, Phillips and Smith, *Industrial and Commercial Geography*; Stamp, *Our Undeveloped World*; Klages, *Ecological Crop Geography*; Dumont, *Types of Rural Economy*; American Geographical Society, *A World Geography of Forest Resources*; Morgan, *World Sea Fisheries*; University of Maryland, *Atlas of World Resources*; George, *Géographie de l'Énergie*; Hoover, *The Location of Economic Activity*; Chardonnet, *Les grands types de complexes industriels*; Jouffroy, *L'Ère du Rail*; O'Dell, *Railways and Geography*; Morgan, *Ports and Harbours*; Sealy, *The Geography of Air Transport*; Baucr and Yamey, *The Economics of Underdeveloped Countries*; Beaujeu-Garnier, *Géographie de la Population*; Thomas (ed.), *Man's Role in Changing the Face of the Earth*; League of Nations, *The Network of World Trade*; William-Olsson, *Economic Map of Europe*. Books and papers on regional aspects will be recommended as the course proceeds.

(ii) Principles of Human Geography

Dr. GEDDES

Three lectures, one laboratory per week in the autumn and spring terms.

Part I.—Occupations of man, their result as seen in landscape, seasonal rhythm and grouping. A. "Primitive" and "Traditional" Communities. B. Rural and Urban Communities.—(1) Smaller communities, linked by routes to (2) towns:—position, site and function; historic development; planning.

Part II.—Human types and groups in the world environment—(1) Population:—distribution; trends and variability of change; factors of food, health and migration. (2) Cultural grouping:—by language, religion, traditional modes of life, race. (3) Political groups:—capitals and frontiers; empire-states; nation-states and modern regionalism; international federation. (4) The human region. (5) "Laws" or "principles."

Books recommended:—I. —Vidal de la Blache, *Principles of Human Geography*; Thomas (ed.), *Man's Role in Changing the Face of the Earth*; Sorre, *Fondements de Géographie humaine* (3 vols.); Brunhes, *Human Geography*; Forde, *Habitat, Economy and Society*; Deffontaine (ed.), *Collection de Géographie humaine*; Taylor, *Geography in the Twentieth Century*; Smailes, *Geography of Towns*; Mumford, *Culture of Cities*; Tyrwhitt (ed.), *Patrick Geddes in India*; George, *La Ville*.

II.—George, *Introduction à l'étude géographique de la population du monde*; Beaujeu-Garnier, *Géographie de la Population*; Howells, *Mankind so Far*; Childe, *What Happened in History*; Wright, *The Geographical Basis of European History*; Fleure, *Western Europe*; Cornish, *Great Capitals*; Philip, *Intermediate Historical Atlas*; Taylor, *Our Evolving Civilisation*; Renner et al., *Global Geography*; East and Moodie, *The Changing World*; Bowman, *The New World* (4th ed.); Dickinson, *City, Region and Regionalism*.

(iii) Special Option Course

In his final year the student shall select one course from amongst those the Department is prepared to offer. Normally these may include advanced courses in Cartography, Geomorphology, Climatology, Social Geography, Economic

Faculty of Arts

Geography, Historical Geography, Political Geography and Regional Geography. The Department is not prepared to undertake a course for which less than three students apply.

The following Special Option courses will be held during the session 1959-60 (autumn and spring terms):—Cartography, Geomorphology and Social Geography.

Cartography

Mr. KLAWE

The study of an experimentation with various types of mapping techniques.

Geomorphology—Pleistocene Geomorphology of the British Isles

Dr. SISSONS

(a) Study and discussions of the more important publications dealing with the glacial, interglacial, late-glacial and post-glacial development of the land-forms of the British Isles.

(b) Field work: the detailed study of the Pleistocene geomorphology of a small part of southern Scotland.

Social Geography—Social Geography of the City

Dr. JONES

Geographical and social theories of the structure of cities; analysis of distinctive urban sub-divisions; characteristics of urban life and population; factors in the growth of the modern city; comparative survey of geographical, economic and social forces in urban development.

During the course students must make a field study of an urban neighbourhood.

Field Work

Dissertation.—Candidates for the degree with Honours in Geography are required to make a Regional or Systematic study—normally within the British Isles. This will involve about one month's work in the field, preferably to be done during the summer vacation preceding the last year of work for the degree, and the preparation of a dissertation not to exceed 12,000 words in length. The dissertation with its maps should be presented by 1st October of the autumn term in the student's last year of study.

In addition to the individual field work required for the dissertation (see above), and regular field work during terms, annual excursions are to be regarded as an integral part of the curriculum. Students in their Honours years normally take part in a field camp in Scotland lasting a fortnight and costing about £15, and also in an excursion to a foreign country, lasting about a fortnight and costing about £35, including fares in both cases.

HONOURS EXAMINATION IN GEOGRAPHY

The examination will consist of the following eight papers, together with a dissertation and an oral examination should that be deemed necessary by the examiners:

1. Regional Geography.
2. Geomorphology.
3. Climatology and Biogeography.
4. Cartography.
5. Human Geography.
6. Economic Geography.
7. Special Option subject.
8. General Geography.

OTHER COURSES IN GEOGRAPHY

First Ordinary Economic Geography, *see* Index

Geography of Spain

A short course of lectures on the Geography of Spain will be given during the spring term, at times to be arranged, for students of Spanish.

Books recommended:—Echeverría, *España: el País y los Habitantes*; Echeverría, *Geografía de España*; Reus, *Geografía Económica de España*; Deffontaines, *El Mediterraneo*; Fisher and Bowen-Jones, *Spain*.

Geographical Laboratories and Library

Laboratory facilities are available to students on payment of a laboratory fee—5s. for Ordinary students, 10s. for students in the Honours classes. Upon payment of these fees the library is also available to students in Geography (from Second Year onwards) and in Economic Geography (First Ordinary).

PHONETICS

Mr. ABERCROMBIE, Reader, Head of Department; Mrs ULDALL, Mr. LADEFOGED, and Dr. INGEMANN, Lecturers; Mr. J. KYLES, Lecturer in Acoustics

Introductory Course

One hour a week for one term, at times to be arranged. This course is intended for students taking First Ordinary French, Course B; and for students taking the Ordinary English Language course. Other students are not admitted. *Our Spoken Language*, by A. Lloyd James, will be useful preparatory reading.

Ordinary Course

Mon., Wed. and Fri. at 11, and in small groups for tutorial instruction and laboratory work on Tues. and Thurs. mornings or at other times to be arranged. During the first term students will also attend a class in Acoustics, which meets in the Department of Natural Philosophy, Drummond Street, on Tues. at 2, beginning on the first day of term.

The course consists of an introduction to general phonetics, including problems of phonetic notation, and a detailed study of the pronunciation of English. The text-books recommended are: *The Principles of the International Phonetic Association* (1949 edition); Ward, *The Phonetics of English*; Pike, *Phonetics*; McKenzie, *Sound*.

Other works recommended are:—Armstrong and Ward, *Handbook of English Intonation*; Armstrong, *English Phonetic Reader*; Firth, *Speech*; Fletcher, *Speech and Hearing*; Stevens and Davis, *Hearing*; Jones, *Outline of English Phonetics*, *The Phoneme*, and *The Pronunciation of English*; Joos, *Acoustic Phonetics*; Negus and Jones, article "Voice" in *Encyclopedia Britannica*, 14th ed.; Pike, *Phonetics and Tone Languages*; Rousselot, *Principes de phonétique expérimentale*; Stetson, *Motor Phonetics*; Twaddell, *On Defining the Phoneme*; Westermann and Ward, *Practical Phonetics for Students of African Languages*.

Class examination dates, *see* p. 475.

DEGREE EXAMINATIONS

A written examination and an oral test on the general work of the course.

Faculty of Arts

The Phonetics of English

One hour a week for the autumn and spring terms, at a time to be arranged. Optional Special Subject for students taking M.A. Hons. in English specialising in Language.

The Phonetics of the Romance Languages

One hour a week throughout the session at a time to be arranged. Optional Special Subject for students taking M.A. Honours in French who have previously obtained a pass in the Ordinary course in Phonetics.

Speech Engineering

A course of eight lectures, on Tues. afternoons at a time to be arranged, in the autumn term. The course is intended for communication engineers and for members of other Departments who are interested in speech. The subjects to be discussed will include: Speech as a commodity; Techniques used in the description of speech; The application of communication theory; Acoustic properties of speech; Bandwidth compression systems; Voice-operated devices. Demonstrations will be given of various research techniques used in analysing and synthesising speech.

For the **Diploma in Phonetics**, *see* Index.

(D) Department of History and Law

HISTORY

Ordinary Course (British History to 1939)

PROFESSORS HAY and HORN; and Lecturers

Tues., Wed. and Fri. at 11; and in small groups for tutorial instruction on Mon. and Thurs. mornings or at other times to be arranged.

Prescribed books:—Bede, *Ecclesiastical History* (Penguin); Horace Walpole, *Select Letters* (Everyman).

Books recommended:—(a) General (covering the whole course): Tout, *Advanced History of Britain*; Gardiner, *Student's History of England*; Green, *Short History of English People*; Williamson, *The Evolution of England*; Feiling, *History of England*; Trevelyan, *History of England and English Social History . . . from Chaucer to Queen Victoria*; *Oxford History of England* (11 vols. published hitherto); *Penguin History of England*; Birnie, *Economic History of the British Isles*; Dietz, *Economic History of England*; Sir J. Clapham, *Concise Economic History of Britain to 1750*; Adams, *Constitutional History of England*; A. T. P. Williams, *The Anglican Tradition in the Life of England*; Kermack, *Historical Geography of Scotland*; Rait, *History of Scotland* (Home University Library); Mackie, *Short History of Scotland*; Curtis, *History of Ireland*.

(b) Early and Mediæval periods:—Cyril Fox, *The Personality of Britain*; Collingwood, *Roman Britain*; Stubbs, *Select Charters* (Introduction); *Cambridge Medieval History* (chapters on British History); Davis, *England under the Normans and Angevins*; White, *The Making of the English Constitution*; Sayles, *The Mediæval Foundation of England*; Barlow, *Feudal England*; G. W. S. Barrow, *Feudal Britain*.

(c) Sixteenth and seventeenth centuries: Pollard, *Henry VIII*; Rowse, *The Age of Elizabeth*; Keir, *Constitutional History of Modern Britain, 1485-1937*; Firth, *Oliver Cromwell*; Clark, *The Wealth of England, 1496-1760*.

(d) Eighteenth and nineteenth centuries: Green, *The Hanoverians*; Thomson, *Constitutional History of England, 1640-1801*; T. S. Ashton, *The Industrial Revolution*; Halévy, *History of the English People* (trans. Watkin and Barker); Williamson, *Great Britain and the Empire*; Trevelyan, *British History in the Nineteenth Century*; Ramsay Muir, *Short History of the British Commonwealth*, vol. 2, and *How Britain is Governed*; Court, *Concise Economic History of Britain*.

Class examination dates, see p. 472.

DEGREE EXAMINATIONS

General British History from 55 B.C. to A.D. 1939 in outline. The examiners will attach greater importance to a grasp of principles than to a mere knowledge of details. For the prescribed books see above.

History, Its Nature and Methods

Mon. and Thurs. at 10 in autumn. This course is given every other year. It will take place in the autumn term, 1959.

This is a composite course, in which the following persons will lecture:—Professors A. H. Campbell, Drever, Hay, Horn, Peacock, Piggott, Talbot Rice, and Dr. A. Taylor, Dr. Cadoux, Mr. Kiernan, Mr. Shepperson, Mr. Duncan, Mr. Bullough and Mr. Nicolaisen. The course should be attended by History

Faculty of Arts

Honours students in their second or third year, and is open also to all members of staff and matriculated students.

British History Honours Courses I and II

PROFESSORS HORN and HAY; Mr. NOBBS, Senior Lecturer; Mr. DUNCAN, Mr. MALKIEWICZ and Mr. MACKINTOSH, Lecturers; Professor DICKINSON and other members of the Scottish History Department.

Entrance qualifications for Course I:—A pass in Latin on at least the lower standard in the Leaving Certificate or Preliminary examination (or some equivalent evidence of proficiency). Honours history students will normally attend Course I, which covers the period to 1603, in their second year and Course II, which covers the period from 1603 to 1939 in their third year. Class hours:—Tues., Wed. and Fri. at 11; in the summer term of Course II the class will meet on the same days at 10. Tutorial instruction will be given at times to be arranged throughout the three terms. The course will deal with the general history of Britain to 1939.

Books recommended:—*Oxford History of England*; Maitland, *Domesday Book and Beyond*; Barlow, *Feudal Kingdom of England, 1042-1216*; Morris, *Medieval English Sheriffs*; Painter, *Reign of King John*; Powicke, *Henry III and the Lord Edward*; Brooke, *English Church and the Papacy*; Plucknett, *Legislation of Edward I and Concise History of the Common Law*; Tout, *Chapters in the Administrative History of Medieval England*; Pollock and Maitland, *History of English Law*; Pollard, *Evolution of Parliament*; Knowles, *Monastic Order in England and Religious Orders in England*; A. Hamilton Thompson, *English Clergy in the later Middle Ages*; Tout, *Political History of England, 1216-1377*; Perroy, *Hundred Years War*; Baldwin, *King's Council*; Clarke, *Fourteenth Century Studies*; Kingsford, *Prejudice and Promise in Fifteenth Century England*; Darby, *Historical Geography of England before 1800*; Power, *Wool Trade in Medieval English History*; Tawney, *Agrarian Problem in England in the Sixteenth Century*; Elton, *England under the Tudors*; Keir, *Constitutional History of Modern Britain*; Holdsworth, *History of English Law* (volumes covering 1558-1688); Neale, *The Elizabethan House of Commons*; D. H. Willson, *King James VI and I*; Tanner, *Constitutional Conflicts of the Seventeenth Century*; Feiling, *History of the Tory Party*; Willey, *Seventeenth Century English Background*; Mathew, *The Jacobean Age and The Age of Charles I*; Roper, *Archbishop Laud*; Hexter, *The Reign of King Pym*; Abbott, *The Writings and Speeches of Oliver Cromwell*; Firth, *Cromwell's Army*; James, *Social Problems and Policy during the Puritan Revolution*; Ashley, *Financial and Commercial Policy under the Protectorate*; Ogg, *England under Charles II and England in the Reigns of James II and William III*; Turner, *James II*; Browning, *Thomas Osborne, Earl of Danby*; Haller, *The Rise of Puritanism*; Cragg, *From Puritanism to the Age of Reason*; Lodge, *Political History, 1660-1702*; Trevelyan, *England under Queen Anne*; Lecky, *History of England*; Williams, *Stanhope*; Vaucher, *Walpole*; Tunstall, *William Pitt*; Owen, *The Rise of the Pelhams*; Sykes, *Church and State in the Eighteenth Century*; Harlow, *The Founding of the Second British Empire*; Namier, *Structure of Politics at the Accession of George III and England in the Age of the American Revolution*; Pares, *King George III and the Politicians*; Christie, *The End of North's Ministry*; Holland Rose, *William Pitt and National Revival and William Pitt and the Great War*; Halévy, *History of the English People*; Webster, *The Foreign Policy of Castlereagh* (2 vols.), and *The Foreign Policy of Palmerston, 1830-1841*; Temperley, *The Foreign Policy of Canning*; Trevelyan, *Lord Grey of the Reform Bill*; Kitson Clark, *Peel and the Conservative Party*; Gash, *Politics in the age of Peel*; Clapham, *Economic History of Modern Britain*; Jennings, *Cabinet Government*; Cambridge *History of the British Empire*, vol. ii; Morley, *Life of Gladstone*; Monypenny, and Buckle, *Life of Disraeli*; Hammond, *Gladstone and the Irish Nation*;

Courses of Instruction (Hist. and Law)

Cecil, *Life of Salisbury*; Garvin and Amery, *Life of Chamberlain*; Spender and Asquith, *Life of Asquith*; Nicolson, *Life of George V*; Jones, *Lloyd George*; Edmonds, *History of World War I*; Young, *Life of Baldwin*; Snowden, *Autobiography*; Feiling, *Life of Neville Chamberlain*; *Cambridge History of British Foreign Policy*, vol. ii; Temperley and Penson, *Foundations of British Foreign Policy*.

Works on Scottish History will be recommended during the course.

Documents on British History

Prescribed texts:—Stubbs, *Select Charters* (9th ed.); Lodge and Thornton, *English Constitutional Documents*; Tanner, *Tudor Constitutional Documents and Constitutional Documents of James I*; Gardiner, *Constitutional Documents of the Puritan Revolution*; Costin and Watson, *The Law and Working of the Constitution*; Le May, *British Government 1914-1953*, and possibly other documents.

Lectures and other instruction will be given one day a week in autumn and spring terms on the prescribed texts for each of the three special periods in one of which students must take a paper in the Final Honours examination. This part of the British History Honours course should normally be taken in the student's third year.

European History Ordinary Course (800-1939)

PROFESSOR HORN; Mr. KIERNAN, Mr. DUNCAN, Mr. MALKIEWICZ and Mr. BULLOUGH, Lecturers

Class hours:—Tues., Wed. and Fri. at 9. This course may be taken for the Ordinary degree as a single, or as part of a double course, and must be taken by students reading for Honours in History.

Books recommended:—(a) Serviceable text-books: Previté-Orton, *Outlines of Medieval History*; Pirenne, *A History of Europe from the Invasions to the Sixteenth Century* (trans. Miall); H. W. C. Davis, *Europe 800-1789* (amplified by J. M. Thompson, *Lectures on Foreign History* and Lord Acton, *Lectures on Modern History*, as an introduction to the early modern period in default of a satisfactory single book); Grant and Temperley, *Europe in the Nineteenth and Twentieth Centuries*; or David Thomson, *Europe since Napoleon* (for the period from 1789 onwards). (b) For further reading and reference: *The New Cambridge Modern History*; Methuen's *History of Medieval and Modern Europe* (various authors); Moss, *Birth of the Middle Ages*; Dawson, *The Making of Europe*; Bryce, *The Holy Roman Empire*; Barraclough, *Origins of Modern Germany*; Pirenne, *Economic and Social History of Medieval Europe*; E. Barker, *The Crusades*; R. L. Poole, *Illustrations of the History of Medieval Thought and Learning* (1920 ed.); G. N. Clark, *The Seventeenth Century*; Bridge, *France under Richelieu and Colbert*; Reddaway, *Frederick the Great* (Heroes of Nations series); Ramsay Muir, *The Expansion of Europe*; Taylor, *Bismarck*; L. C. B. Seaman, *From Vienna to Versailles*; Sumner, *Survey of Russian History*; Gooch, *Some Recent Revelations of European Diplomacy*; Beaumont, *La faillite de la paix, 1918-39* (Peuples et Civilisations, vol. xx); the following books in the Home University Library series: H. W. C. Davis, *Medieval Europe*; Baynes, *Byzantine Empire*; H. A. L. Fisher, *Napoleon*; any good historical atlas, e.g. *Grosser Historischer Weltatlas*.

Documents for special study chosen from:—Laffan, *Select Documents of European History (800-1492)* (Methuen); Reddaway, *Select Documents of European History (1492-1715)* (Methuen); Butterfield, *Select Documents of European History (1715-1920)* (Methuen).

Class examination dates, see p. 473.

Faculty of Arts

European History Honours Course I (800-1085)

Mr. DUNCAN and Mr. BULLOUGH, Lecturers

Tues., Wed., Fri. at 12 during two terms.

Prescribed texts:—Richer, *Histoire de France*, ed. and trans. Latouche, passages to be indicated in class; Liutprand, *Antapodosis* (in *Scriptores Rerum Germanicarum*—Liutprandi *Opera*) passages to be indicated in class; collection of texts relating to history of Feudalism (to be duplicated); select texts in Bernheim, *Quellen zur Gesch. des Investiturstreits*.

Books recommended:—Appropriate volumes of *Collection Glotz* and *Cambridge Medieval History*; Southern, *Making of the Middle Ages*; Halphen, *Charlemagne et l'Empire Carolingien*; Lot, *La Naissance de la France*; Barraclough, *Origins of Modern Germany*; Ostrogorsky, *History of the Byzantine State*; Fliche et Martin, *Histoire de l'Eglise*, VI, VII, VIII; Salvatorelli, *Concise History of Italy*; Kendrick, *History of the Vikings*; Ganshof, *Feudalism*; Dhondt, *Etudes sur la Naissance des Principautés territoriales en France*; Poupardin, *Le Royaume de Provence*; Poupardin, *Le Royaume de Bourgogne 888-1038*; Previté-Orton, *Early History of the House of Savoy*, chaps. 1, 2; Tellenbach (trans. Bennett), *Church State and Christian Society*; Whitney, *Hildebrandine Essays*; Knowles, *Monastic Order in England* (general chapters).

European History Honours Course II (1378-1494)¹

PROFESSOR HAY

Tues., Wed. and Fri. at 12 during two terms.

Prescribed texts:—Passages to be indicated in class from: Von der Hardt, *Magnum Constantiense Concilium*; Platina, *Vita Pontificum* (ed. Gaida); *Journal d'un Bourgeois de Paris* (ed. Tuetey); Jacqueton, *Documents relatifs à l'administration financière*; Commynes, *Mémoires* (ed. Calmette).

Books recommended:—General histories: Pirenne, Renaudet and others, *La fin du moyen age* (Peuples et Civilisations, ed. Halphen and Sagnac, vol. vii); Calmette and Déprez, *L'Europe occidentale de la fin du XIV^e siècle aux Guerres d'Italie* (Histoire Générale, ed. Glotz, Moyen Age, vii); *Cambridge Medieval History*, vols. iv, vii, viii. Special studies: De Wulf, *Histoire de la philosophie médiévale*, iii; Carlyle, *History of Medieval Political Thought in the West*, vi; Figgis, *From Gerson to Grotius*; Curtius, *European Literature and the Latin Middle Ages*; Burckhardt, *Civilization of the Renaissance in Italy*; Ferguson, *Renaissance in Historical Thought*; Huizinga, *Waning of the Middle Ages*; Woodward, *Vittorino da Feltre and other Humanist Educators*; Pastor, *History of the Popes*, i-v; Creighton, *History of the Papacy*; Valois, *La France et le grand schisme d'Occident*; Hefele-Leclercq, *Histoire des Conciles*, vii; H. Jedin, *History of the Council of Trent*; Sismondi (trans. and ed. Boulting), *History of the Italian Republics*; Janssen, *History of the German People*, i, ii; Barraclough, *Origins of Modern Germany*; Lavissee, *Histoire de France*, iv; Perroy, *Hundred Years War*, Dickinson, *Congress of Arras*; Bridge, *History of France*, i; Pirenne, *Histoire de Belgique*, ii; Ostrogorsky, *History of the Byzantine State*; Renouard, *Les hommes d'affaires Italiens*; *Cambridge Economic History*, i and ii.

European History Honours Course III (1715-1815)

PROFESSOR HORN; and Mr. KIERNAN, Lecturer

Mon., Tues. and Thurs. at 10 in autumn and spring; tutorial instruction at times to be arranged. In lectures the period 1789-1815 will be discussed in the autumn and the period 1715-89 in the spring term. Students may take the

¹ This course will not be given in session 1959-60.

Courses of Instruction (Hist. and Law)

lectures in this order, but should normally study the period 1715-89 in the spring term of their third year and the period 1789-1815 in the autumn term of their fourth year.

Prescribed books:—*Recueil des Instructions*, etc. (*Autriche*, pp. 151-407), *Mémoires de Frédéric II* (ed. Boutaric), vol. i, pp. 1-373 *English Historical Documents*, x, pp. 907-53; *French Revolution Documents, 1789-94* (ed. J. M. Thompson); C. K. Webster, *British Diplomacy, 1813-15*, parts ii, iii and iv.

Books recommended:—*New Cambridge Modern History*, vol. vii; Reddaway, *Europe from 1715 to 1814*; Muret, *La Prépondérance Anglaise*; Sagnac, *La Fin de l'Ancien Régime et la Révolution Américaine*; Wilson, *French Foreign Policy of Fleury 1726-43*; Vaucher, *Robert Walpole et la Politique de Fleury*; Lodge, *Great Britain and Prussia in the Eighteenth Century* and *Studies in Eighteenth Century Diplomacy*; Horn, *Sir Charles Hanbury Williams and European Diplomacy 1747-58*; Waddington, *Louis XV et le Renversement des Alliances*; Rashed, *The Peace of Paris*; McLachlan, *Trade and Peace with Old Spain*; Geikie and Montgomery, *The Dutch Barrier 1705-19*; Hatton, *Diplomatic Relations between Great Britain and the Dutch Republic 1714-21*; Reading, *Anglo-Russian Commercial Treaty of 1734*; Lord, *The Second Partition of Poland*; Sorel, *La Question d'Orient au 18^e siècle*; Atkinson, *History of Germany 1715-1815*; Wilson, *Anglo-Dutch Commerce and Finance in the Eighteenth Century*; Cobban, *Ambassadors and Secret Agents*; Anderson, *Britain's Discovery of Russia*; Lavissee, *Histoire de France contemporaine*, vols. 1-3; *Cambridge Modern History*, vols. viii and ix; De Tocqueville, *France before the Revolution of 1789*; Séc, *Economic and Social Conditions of France in the 18th Century*; Young, *Travels in France and Italy*; Mathiez, *The French Revolution and La Réaction thermidorienne*; Thompson, *Robespierre*; Lacour-Gayet, *Talleyrand*; Sorel, *L'Europe et la Révolution française*; Mahan, *Influence of Sea Power on the French Revolution and Empire*; Gottschalk, *The Era of the French Revolution*; Hearnshaw, *The Social and Political Ideas of Some Representative Thinkers of the Revolutionary Era*; Padover, *The Revolutionary Emperor*; Ford, *Hanover and Prussia 1795-1803*; Gooch, *Germany and the French Revolution*; Madclin, *La France du Directoire and Consulate and Empire*; Rose, *Life of Napoleon*; Fournier, *Napoleon I*; Lefebvre, *Napoléon*; Butterfield, *The Peace Tactics of Napoleon*; Fisher, *Studies in Napoleonic Statesmanship: Germany*; Grunwald, *Baron Stein, Enemy of Napoleon*; Grandmaison, *L'Espagne et Napoléon, 1804-1809*; Tarlé, *Napoleon's, Invasion of Russia, 1812*; Buckland, *Metternich and the British Government, 1809-13*; Hecksher, *The Continental System*; Webster, *Foreign Policy of Castlereagh*; *Grosser Historischer Weltatlas*, part iii.

For reference:—*A Select List of Works on Europe and Europe Overseas, 1715-1815*, ed. Bromley and Goodwin; *English Historical Documents*, x, pp. 837-43.

European History Honours Course IV (1856-1939)

PROFESSOR HORN; and Mr. KIERNAN, Lecturer

Mon., Tues. and Thurs. at 10 in autumn and spring; tutorial instruction at times to be arranged.

Prescribed books:—Bismarck, *Reflections and Reminiscences*, vol. ii; Monypenny and Buckle, *Life of Disraeli*, vol. vi, pp. 282-357; *German Diplomatic Documents, 1871-1914* (translated by Dugdale), vol. i, pp. 61-99, and vol. iv, chaps. 6, 10 and 11; *Documents Diplomatiques Français (1871-1914)* 1^e série, vol. ii, nos. 255-327, and 3^e série, vol. iv, part V; "The Times" *Documentary History of the War*, vol. i, pp. 445-497; Gantenbein, *Documentary Background of World War II*, pp. 65-97 and 867-908; *Documents on British Foreign Policy, 1919-1939*, Series 3, vol. i, chap. i; *Le Livre Jaune français, 1939*, part III;

Faculty of Arts

Postgate, *Revolution from 1789 to 1906*, chap. vi; Keith, *Speeches and Documents on International Affairs*, vol. i, pp. 9-23; Oakeshott, *Social and Political Doctrines of Contemporary Europe*, pp. 154-59, 164-79 and 213-18; R.I.I.A. *Documents on International Affairs*, 1936, Section vii; Baynes, *Speeches of Adolf Hitler*, vol. i, chap. 12; Stalin, *Leninism*, pp. 401-40 and Lloyd George, *Memoirs of the Peace Conference*, chaps. vii and ix.

Books recommended:—Thomson, *Europe since Napoleon*; Taylor, *Struggle for Mastery in Europe, 1848-1919*; Croce, *History of Europe in the Nineteenth Century*; Seignobos, *L'histoire politique de l'Europe contemporaine*; Gooch, *History of Europe, 1878-1919*; Day, *Economic Development in Europe*; Brogan, *Modern France*; Bury, *France, 1814-1940*; Eyck, *Bismarck and the German Empire*; Sontag, *Germany and England, 1848-94*; Brandenburg, *From Bismarck to the World War*; Langer, *European Alliances and Alignments and Diplomacy of Imperialism*; Pribram, *England and Europe, 1871-1914*; Bolton King, *History of Italian Unity*; Whyte, *Evolution of Modern Italy and Political Life and Letters of Cavour*; Mack Smith, *Cavour and Garibaldi*; Taylor, *Habsburg Monarchy and Course of German History*; Mosse, *The European Powers and the German Question, 1848-71*, and *Alexander II and the Modernisation of Russia*; Seton-Watson, *Decline of Russia*; Sumner, *Russia and the Balkans*; Seton-Watson, *Disraeli, Gladstone and the Eastern Question and Britain in Europe, 1789-1914*; Lipson, *Europe, 1914-1939*; Temperley, *A History of the Peace Conference of Paris*, 6 vols.; R.I.I.A. *Survey of International Affairs, 1920-1938*, 20 vols.; Gathorne-Hardy, *A Short History of International Affairs, 1920 to 1939* (3rd ed. 1942); Roucek (ed.), *Twentieth Century Political Thought*; Gooch, *Recent Revelations of European Diplomacy* (4th ed. 1940) and *Before the War; Studies in Diplomacy*, 2 vols.; Fay, *The Origins of the World War* (2nd ed. 1934); Jászi, *The Dissolution of the Habsburg Monarchy*; Churchill, *The World Crisis, 1911-1918* (one-volume edition); Edmonds, *A Short History of World War I*; Carr, *The Bolshevik Revolution, 1917-1923*; Keynes, *The Economic Consequences of the Peace*; White, *The Siberian Intervention*; R.I.I.A. *Soviet Documents on Foreign Policy*, vol. 1; Zimmern, *The League of Nations and the Rule of Law, 1918-1935*; Griswold, *The Far Eastern Policy of the United States*; François-Poncet, *Souvenirs d'une ambassade à Berlin*; Namier, *Diplomatic Prelude, 1938-1939*; Salvemini, *The Fascist Dictatorship*; Hitler, *Mein Kampf*; Brady, *The Spirit and Structure of German Fascism*; Dobb, *Soviet Economic Development since 1917*; S. and B. Webb, *Soviet Communism: a New Civilisation*; Seton-Watson, *Eastern Europe between the Wars, 1918-1941*; Dumond, *America in our Time, 1896-1946*; Grew, *Ten Years in Japan*; Snow, *Red Star over China*; Grosser *Historischer Weltatlas*, part iii.

Students in the above classes may attend the Mackay Lectures without fee. For the Kirkpatrick History Library, see Index.

SPECIAL SUBJECTS

(a) France under Charles VII (1422-61); the end of the Anglo-French War ¹

PROFESSOR HAY

The class will meet for lectures and study twice a week in autumn and spring at times to be arranged.

Prescribed texts:—Passages to be indicated in class from the following: E. Cosneau, *Les grands traités de la guerre de cent ans*; Bréquigny, *Ordonnances des rois . . . de la troisième race*, xiii, xiv; Rymer, *Foedera, etc.*, x, xi; Alain Chartier, *Quadrilogue invectif*; T. Basin, *Histoire de Charles VII* (ed. Samaran), i, 184-292; ii, 57-303; *Journal d'un bourgeois* (ed. Tuetey), pp. 302-93; G. Chastellain, ed. Kervyn, iii, 1-107, 160-70, 177-239, 388-490; G. Cousinot, *Chronique* (ed. Vallet de Virville), pp. 278-339; Jean Chartier, *Chronique*

¹ Not available in 1959-60.

(ed. Vallet de Viriville), i, 66-123, 205-28; ii, 76-112, 276-335; iii, 1-48. Selected poems of Charles d'Orléans.

Main secondary works:—A. Vallet de Viriville, *Histoire de Charles VII*; G. du Fresne de Beaucourt, *Histoire de Charles VII*; P. Champion, *Louis XI*, vol. i—*Le dauphin*; Perroy, *The Hundred Years War*; V. Martin, *Les origines du gallicanisme*; Boutruche, *La crise d'une société*; Kingsford, *Prejudice and Promise in XVth century England*; Pirenne, *Histoire de Belgique*, ii; J. H. Ramsay, *Lancaster and York*; K. B. McFarlane, "The Lancastrian Kings" (and bibliography) in *Cambridge Medieval History*, vol. viii; J. G. Dickinson, *Congress of Arras*; G. Dupont-Ferrier, *Institutions financières de la France*.

For reference:—A. Molinier, *Les Sources de l'histoire de France*, vols. iv, v; Bossuat, *Manuel bibliographique de la littérature du Moyen âge*.

(b) British Foreign Policy and the Diplomatic Revolution, 1740-1760

PROFESSOR HORN

Twice a week in autumn and spring at times to be arranged.

Students who wish to offer this Special Subject are advised to attend, in the spring term of their third year, the lecture course on European History (Honours) from 1715 to 1789.

Prescribed books:—French texts of the Treaties of Aix-la-Chapelle (1748), St. Petersburg (1755), Westminster (1756) and Versailles (1756 and 1757); Coxe, *Pelham Administration*, I, 495-503, II, 313-494; Horace Walpole, *Memoirs of George II* (1846), II, 103-277; *Cobbett's Parliamentary History*, XV, cc. 616-64, 703-04, 782-803; Frederick II's *Politische Correspondenz*, XI, 246-end, XII (so far as relevant to the conclusion of the Convention of Westminster); and the Starhemberg-Kaunitz Correspondence, so far as published in French in Kuntzel and Volz, *Preussische und Österreichische Acten zur Vorgeschichte des Siebenjährigen Krieges*.

Books recommended:—*New Cambridge Modern History*, vol. vii; Williams, *The Whig Supremacy*, *Carteret and Newcastle* and *Chatham*; Lodge, *Studies in Eighteenth Century Diplomacy and Great Britain and Prussia in the Eighteenth Century*; Horn, *Sir Charles Hanbury Williams and European Diplomacy, 1747-58*; Waddington, *Louis XV et le Renversement des Alliances*; Thomson, *Secretaries of State*; Owen, *Rise of the Pelhams*; and other books and articles which will be indicated during the course.

(c) The British in East and Central Africa, 1871-1921

MR. SHEPPERSON, Lecturer

Twice a week in autumn and spring at times to be arranged.

Selections for study from the official papers and contemporary works which are mentioned below will be indicated during the course.

Prescribed books:—Selections from the following *Parliamentary Papers*: Select Committee on the Slave Trade (1871, xii, 420); Protocols and General Act of the West African Conference of Berlin (1884-85, lv, c. 4361); Brussels Conference Act, 1889-90 (1890, I, c. 6048); Report on the Native Administration of the British South Africa Company (1897, lxxii, c. 8547); Correspondence relating to the recruitment of Labour in the Nyasaland Protectorate for the Transvaal and Southern Rhodesia Mines (1908, lxxiii, c. 3993); Correspondence relating to the tenure of land in the East Africa Protectorate (1908, lxxi, c. 4117); Correspondence relating to the position of Indians in East Africa (1921, xxvi, c. 1311); Draft Mandate for East Africa (British) (1921, xlili, c. 1254). Selections

Faculty of Arts

from the following official papers:—Memorandum on British interests on the East Coast of Africa at the time of the West African Conference of Berlin (Clement H. Hill, October 20, 1884. F.O. 84, 1813); the Uganda Agreement, 1900; *British Documents on the Origins of the War, 1898-1914* (edited by G. P. Gooch and H. Temperley), iii, vi, vii, x; *Documents Diplomatiques Français*, Première Série, 1871-1900; Report of the Commission to Inquire into the Native Rising within the Nyasaland Protectorate (Zomba, 1916). Short selections from:—David Livingstone, *Last Journals*; H. M. Stanley, *Through the Dark Continent*; Captain F. D. Lugard, *The Rise of Our East African Empire*; P. L. MacDermott, *British East Africa or IBEA*.

Recommended books:—Sir Reginald Coupland, *The Exploitation of East Africa*; W. L. Langer, *The Diplomacy of Imperialism*; Sir F. D. Lugard, *The Dual Mandate in British Tropical Africa*; Sir Alan Pim, *The Financial and Economic History of the African Tropical Territories*; Roland Oliver, *The Missionary Factor in East Africa*; Margery Perham, *Lugard*, vol. i; Sir Harry Johnston, *British Central Africa*; K. Ingham, *The Making of Modern Uganda*; Roland Oliver, *Sir Harry Johnston and the Scramble for Africa*; L. H. Gann, *The Birth of a Plural Society*; A. J. Hanna, *The Beginnings of Nyasaland and North-Eastern Rhodesia, 1859-1895*; L. A. C. Raphael, *The Cape-to-Cairo Dream*; L. W. Hollingsworth, *Zanzibar under the Foreign Office*; Elspeth Huxley, *White Man's Country*; W. McGregor Ross, *Kenya from Within*; H. B. Thomas and Robert Scott, *Uganda*; H. Moyes-Bartlett, *The King's African Rifles*; *Official History of the Great War, Military Operations, East Africa*, ix; George Shepperson and Thomas Price, *Independent African—John Chilenbwe and the Origins, Setting and Significance of the Nyasaland Native Rising of 1915*; and other books and articles which will be recommended in class.

For reference:—*The Cambridge History of the British Empire*, vol. iii; Sir E. Hertslet, *The Map of Africa by Treaty*; J. O. Fage, *An Atlas of African History*; Lord Hailey, *An African Survey and Native Administration in the British African Territories*, Parts i and ii; R. L. Buell, *The Native Problem in Africa*, i; R. R. Kuczynski, *Demographic Survey of the British Colonial Empire*, ii; H. S. Frankel, *Capital Investment in Africa*; *Ethnographic Survey of Africa* (edited by Daryll Forde), East Central Africa volumes; H. Duncan Hall, *Mandates, Dependencies and Trusteeship*.

N.B.—1. The military history of East and Central Africa during the Great War will only be studied in so far as it affects political, economic and social developments in the territories.

2. Documents and books, etc., which are not in the University Library will be supplied in photostatic or cyclostyled form.

(d) Industrialism and Politics in Britain and America, 1895-1914

Mr. MACKINTOSH, Lecturer

Twice a week in autumn and spring at times to be arranged.

Prescribed books:—Selections (to be indicated in class) from the following:—*The Letters of Theodore Roosevelt*, Vol. VII (edited by E. E. Morison); Austen Chamberlain, *Politics from Inside*; *Reports of the Annual Conferences of the T.U.C., 1893-1914*. Commager, *Documents in American History*, Vol. II; *Reports of the Annual Conferences of the Labour Representation Committee, later the Labour Party, 1900-1914*. Gompers, *Seventy Years of Life and Labour*, Vol. I, pp. 327-427, 517-557, Vol. II, pp. 103-174, 194-299; Webb, *Our Partnership*, pp. 12-170, 422-491; *Report of the Royal Commission on Trade Disputes and Trades Combinations, 1906* (Cd. 2825), Vol. LVI.

Recommended books:—Faulkner, *The Decline of Laissez Faire*, *The Quest for Social Justice*; Woodward, *The Origins of the New South*; Filler, *Crusaders*

Courses of Instruction (Hist. and Law)

for American Liberalism; Kipnis, *The American Socialist Movement*; Pringle, *Theodore Roosevelt*; F. La Follette, *Robert M. La Follette*; Bill Haywood's *Book*; Ginger, *The Bending Cross*; Mowry, *Theodore Roosevelt and the Progressive Movement*; Bowers, *Beveridge and the Progressive Era*; Link, *Woodrow Wilson and the Progressive Era*.

Garvin and Amery, *Life of Joseph Chamberlain*, vol. iii and iv; E. C. Dugdale, *A. J. Balfour*; Pelling, *The Origins of the Labour Party*; Pelling and Bealey, *Labour and Politics, 1900-06*; Halévy, *Imperialism and the Rise of Labour, The Rule of Democracy*; Pease, *History of the Fabian Society*; Stewart, *Keir Hardie*; Poirier, *The Advent of the Labour Party*; Tom Mann, *Memoirs*; Clayton, *The Rise and Decline of Socialism*; Clapham, *Economic History of Modern Britain*, vol. iii; Viscount Haldane, *Autobiography*; J. A. Spender, *Sir Henry Campbell-Bannerman*; Early sections of:—Snowden, *Autobiography*; Postgate, *Lansbury*; Elton, *J. R. Macdonald*; Owen, *Tempestuous Journey*; Lord Beveridge, *Power and Influence*; Blake, *The Unknown Prime Minister*.

German History

Mr. KIERNAN and Mr. MALKIEWICZ, Lecturers

These courses are primarily intended for students reading for Honours in German. Course I (mainly for second-year students).—Mr. Malkiewicz and Mr. Kiernan will give sixteen lectures in autumn and spring on Mondays at 9 a.m. on German history, 800-1806. Course II (for fourth-year students).—Mr. Malkiewicz will give sixteen lectures on Wednesdays at 10, in autumn and spring, on German history, 1806-1945.

Books recommended for Course I:—Bryce, *The Holy Roman Empire*; Barraclough, *Origins of Modern Germany*; Marriott and Robertson, *The Evolution of Prussia*; Bruford, *Germany in the Eighteenth Century*; Putzger, *Historischer Schul-Atlas*; Carsten, *The Origins of Prussia*.

Books recommended for Course II:—Taylor, *The Course of German History*; Friedjung, *Struggle for Supremacy in Germany*; Eyck, *Bismarck and the German Empire*; Bismarck, *Reflections and Reminiscences*; Dawson, *The German Empire*; Craig, *Politics and the German Army*; Brandenburg, *From Bismarck to the World War*; Gooch, *Germany*; Rosenberg, *The Birth of the German Republic and The German Republic*; Bullock, *Adolf Hitler*.

Spanish History

Mr. KIERNAN, Lecturer

A half-course of lectures on Spanish history, 1479-1598, will be given at times to be arranged, twice a week in autumn.

Books recommended:—R. Altamira, *Historia de España y de la Civilización Española*, vol. ii and iii; R. B. Merriman, *Rise of the Spanish Empire*, vols. ii, iii, and iv; A. V. Prat, *La Vida Española de la Edad de Oro*; R. Trevor Davies, *The Golden Century of Spain, 1501-1621*; W. H. Prescott, *History of the Reign of Ferdinand and Isabella*; H. L. Seaver, *The Great Revolt in Castile*; K. Brandt, *The Emperor Charles V*; J. H. Mariéjol, *Master of the Armada*.

PALÆOGRAPHY AND DIPLOMATIC

Mr. BULLOUGH, Lecturer

Elementary Class

This will consist of two lectures a week in the summer term at times to be arranged. It is open to all students in the Faculty of Arts, and Honours History students with medieval options are recommended to attend the class in either their second or third year.

Faculty of Arts

The course will deal with the history of writing, manuscript books and the elements of diplomatic up to and including the Renaissance.

Advanced Class

This course is intended for post-graduate students and will take place as required at times to be arranged.

Diploma in Palæography and Manuscript Studies (*see* Index)

CONSTITUTIONAL LAW

PROFESSOR MITCHELL; MR. HENDERSON, Lecturer

Ordinary Course

Tues., Thurs. and Fri. at 5 during the three terms. The course covers:—
(a) An introduction to British constitutional development; the law and custom of the British Constitution; (b) Comparative constitutional law and practice. Tutorial classes will be arranged and will form an integral part of the course.

No books are prescribed, but the following standard works are recommended, and a selection should be made from them.

(a) W. I. R. Fraser, *Outline of Constitutional Law*; Wade and Phillips, *Constitutional Law*, or O. Hood Phillips, *Constitutional Law*; Jennings, *The Law and the Constitution*; T. B. Smith, *Scotland* (vol. i of the United Kingdom Volume in the British Commonwealth Series); Jennings, *Constitutional Laws of the Commonwealth*; Wheare, *The Statute of Westminster and Dominion Status*.

(b) Corwin, *The Constitution and What it Means Today*; Hamson, *Executive Discretion and Judicial Control*; Waline, *Traité de Droit Administratif*.

On particular topics reference can usefully be made to any of the following books:—Dicey, *The Law of the Constitution*; Jennings, *Parliament and Cabinet Government*; Campion, *British Government since 1918*; Keir and Lawson, *Cases on Constitutional Law*, or O. Hood Phillips, *Cases on Constitutional Law*; Anson, *The Law and Custom of the Constitution*; Carr, *Concerning English Administrative Law*; Dowling, *Cases on Constitutional Law*; Vedel, *Manuel de Droit Constitutionnel*.

Note.—In all cases the latest edition should be used.

DEGREE EXAMINATIONS

The history, law and custom of the British constitution and modern comparative constitutional law as treated in class.

Honours Course in the Modern British Constitution

PROFESSOR MITCHELL.

A course on the Modern British Constitution will be given as an integral part of the Documents class of the British History Honours course. Students, other than those taking this course, may be specially admitted to this part by permission of Professor Mitchell.

COMPARATIVE CONSTITUTIONS

PROFESSOR MITCHELL; and Mr. V. MacKINNON, Lecturer

Tues., Thurs. and Fri. at 3 during the three terms. Tutorial classes will also be held.

The course deals with the major constitutional institutions in different systems

of government, and is concerned with the common constitutional problems of modern states.

The course may be taken as an entirety, but students may also be specially admitted to parts of the course separately. The division of the course is as follows:—

Part I (Autumn)

The U.S.A. The origin, development and structure of the constitution. The President: his office and powers and relationship to the Cabinet and administration and to Congress. Congress: its composition and operation as a legislative body; its relationship to the administration, its investigatory powers. The Federal Judicial System: its structure, and the role of the Supreme Court as a constitutional court, its control over legislative and administrative acts. Public Boards and Regulatory Bodies: their powers and influence and control over them, including the Federal Administrative Procedure Act. The Federal System as it exists.

Recommended books:—A selection may be made from the following:—E. S. Corwin, *The Constitution and What it Means Today*; *The President: Office and Powers*; C. B. Swisher, *The Growth of Constitutional Power in the U.S.*; R. E. Cushman, *The Independent Regulatory Commissions*; A. H. Kelly and W. A. Harbison, *The American Constitution*; R. H. Pear, *American Government*; A. B. Saye, *The Principles of American Government*; K. C. Davis, *Administrative Law: Cases and Materials*; Freund et al., *Constitutional Law: Cases and other Problems*; Mason and Beane, *American Constitutional Law*.

Part II (Spring)

The Commonwealth. The constitutional structure in Australia and Canada. The Governor-General, his office and powers. The legislatures, their composition and powers and the development of cabinet government. The Courts, their structure and constitutional influence. The position of the Crown and the place of public boards in Commonwealth countries. The federal nature of their constitutions and the machinery for co-operation. Their relationship to the U.K.

Recommended books:—A selection may be made from the following:—H. McD. Clokie, *Canadian Government and Politics*; R. M. Dawson, *The Government of Canada*; P. Gérin-Lajoie, *Constitutional Amendment in Canada*; W. P. Kennedy, *The Constitution of Canada: Documents*; R. W. Ward, *The Canadian House of Commons*; Laskin, *Constitutional Law of Canada*; H. Evatt, *The King and his Dominion Governors*; L. Crisp, *Parliamentary Government in the Commonwealth of Australia*; G. Sawyer, *Australian Constitutional Cases*; G. Sawyer (ed.), *Federalism*; W. I. Jennings, *Constitutional Laws of the Commonwealth*; W. Friedmann, *Public Corporations*; G. H. Paton, *Australia*.

Part III (Summer)

France. The origins and principles of the constitution of the 5th Republic. The President: his position and influence. The Legislative and Consultative Assemblies: their composition, functions and methods of operation. The Government: its formation and relationship to the Assembly, the position of the Prime Minister. The Courts: judicial structure and recruitment, the role of the Council d'État and the French concept of the rule of law. Central and Local Government, including the régime of nationalized industries. The relationship of France to colonial territories.

Recommended books:—A selection may be made from the following:—D. M. Pickles, *French Politics*; D. W. S. Lidderdale, *The Parliament of France*; B. Chapman, *Local Government in France*; B. Chapman, *The Prefects and Provincial France*; L. Duguit, *Les Constitutions de la France depuis 1789* (7th ed.

Faculty of Arts

by G. Berlia); R. Pinto, *Éléments de Droit Constitutionnel*; G. Vedel, *Précis de Droit Constitutionnel*; B. Letourneur, *Le Conseil d'État*; Conseil d'État, *Études et Documents*; C. H. Hamson, *Executive Discretion and Judicial Control*; G. Thery, *La Quatrième République*; D. W. Brogan, *The Development of Modern France*; D. Thomson, *Democracy in France; The Third and Fourth Republics*.

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the course.

SCOTTISH HISTORY AND PALÆOGRAPHY

PROFESSOR DICKINSON; Dr. DONALDSON, Reader; Dr. FERGUSON, Lecturer

First Ordinary Course

Tues., Wed. and Fri. at 11, with tutorial classes at times to be arranged. The first twelve lectures of the course constitute Course I for Intermediate Honours in the Department of Celtic.

Prescribed books:—Dickinson, Donaldson and Milne, *Source Book of Scottish History*, 3 vols.; Rait and Pryde, *Scotland* (2nd ed., chaps. 3-10);

Books recommended:—(a) GENERAL: Hume Brown, *History of Scotland*, 3 vols.; MacEwen, *History of the Church in Scotland*, 2 vols.; Grant, *Social and Economic Development of Scotland before 1603*. (b) EARLY PERIOD: Anderson, *Scottish Annals from English Chroniclers*; Innes, *Lectures on Scotch Legal Antiquities and Scotland in the Middle Ages*; Ritchie, *The Normans in Scotland*; Barrow, *Feudal Britain*. (c) SIXTEENTH AND SEVENTEENTH CENTURIES: Law Mathieson, *Politics and Religion*, 2 vols.; Hume Brown, *Scotland in the Time of Queen Mary*; Knox, *History of the Reformation in Scotland* (ed. Dickinson); Percy, *John Knox*; Keith, *Commercial Relations of England and Scotland, 1603-1707*. (d) LATER PERIOD: Law Mathieson, *Scotland and the Union, Awakening of Scotland and Church and Reform in Scotland*; Pryde, *The Treaty of Union of Scotland and England*; Graham, *Social Life of Scotland in the Eighteenth Century*; Plant, *The Domestic Life of Scotland in the Eighteenth Century*; Menary, *Life and Letters of Duncan Forbes of Culloden*; Furber, *Henry Dundas*; Hamilton, *Industrial Revolution in Scotland*; Saunders, *Scottish Democracy*; Coupland, *Welsh and Scottish Nationalism*.

Class examination dates, see p. 475.

DEGREE EXAMINATIONS

A general knowledge of Scottish History.

Second Ordinary Course

Dr. FERGUSON, Lecturer

Tues., Thurs. and Fri. at 3, with tutorial classes at times to be arranged.

A general survey of Scottish history from the Restoration to the present day. Attention will be paid to social, economic and ecclesiastical developments, and political history will be analysed against this background. The actual operation of government and of legal and administrative agencies will also be considered. As far as possible regional differences will be discussed and, in particular, an effort will be made to illustrate developments in the Highlands and Islands.

Books recommended:—(a) General and Political: *Source Book of Scottish History*, vol. iii; Fyfe, *Scottish Diaries and Memoirs*, 2 vols.; Duke of Argyll, *Intimate Society Letters of Eighteenth Century*, 2 vols.; Menary, *Duncan Forbes*; Furber, *Henry Dundas*; Meikle, *Scotland and the French Revolution*; Carlyle,

Courses of Instruction (Hist. and Law)

Autobiography Somerville, *My Own Life and Times*; Cockburn, *Memorials of his Time*; Mackie, *Duncan McLaren*; Marquess of Crewe, *Lord Rosebery*; Coupland, *Welsh and Scottish Nationalism*.

(b) Economic and Social: Insh, *The Company of Scotland*, Graham, *Social Life of Scotland in the Eighteenth Century*; Plant, *Domestic Life in Scotland in the Eighteenth Century*; Hamilton, *Industrial Revolution in Scotland*; Marwick, *Economic Developments in Victorian Scotland*; Ferguson, *The Dawn of Scottish Social Welfare*; Saunders, *Scottish Democracy*; Collier, *The Crofting Problem*; Kyd, *Scottish Population Statistics*; Macdonald, *Scotland's Shifting Population*; County Agricultural Surveys.

(c) Church and Education: MacInnes, *Evangelical Movement in the Highlands of Scotland*; Buchanan, *History of the Ten Years Conflict*; Fleming, *History of the Church of Scotland, 1843-1929*; Anson, *Catholic Church in Modern Scotland*; Goldie, *Short History of the Episcopal Church*; Knox, *Two Hundred and Fifty Years of Scottish Education*; Simpson, *Education in Aberdeenshire*; Mason, *Scottish Experiments in Rural Education*.

(d) Administration: Day, *Public Administration in the Highlands and Islands*; *Handbook on Scottish Administration*; Shaw, *Local Government*.

Source material such as Parliamentary Papers, the Statistical Accounts and contemporary periodicals will be referred to and recommended during the course of the lectures.

Class examination dates, see p. 475.

Honours Courses

For the special subject of Scottish History in the Final Honours examination students may offer *either* (a) Feudal Scotland, *or* (b) Church and State in Scotland, 1567-1638. Students taking either of these courses are recommended to take the class in Palæography. Both courses are designed to aid students in learning to use original authorities.

(a) Feudal Scotland ¹

PROFESSOR DICKINSON

Twice a week in autumn and spring at times to be arranged.

Books recommended for reading:—Thomson, *Public Records of Scotland*; Innes, *Scotch Legal Antiquities*; Rait, *Parliaments of Scotland*; Mackenzie, *The Scottish Burghs*; Dickinson, *Early Records of the Burgh of Aberdeen* (Introduction); Dickinson, *Sheriff Court Book of Fife* (Introduction and Appendices); Dickinson, *Court Book of the Barony of Carnwath* (Introduction); Burnett, *Rotuli Scaccarii*, vol. i (Introduction); Dickson, *Accounts of the Lord High Treasurer*, vol. i (Introduction); McGill and Bellenden, *Discours Particulier d'Ecosse*.

The course is based upon the records published by H.M. Stationery Office and by the historical clubs, and these will be referred to and consulted throughout.

(b) Church and State in Scotland, 1567-1638

DR. DONALDSON

Twice a week in autumn and spring, at times to be arranged.

Sources:—Baillie, *Letters and Journals*, vol. i; Botfield, *Original Letters relating to the Ecclesiastical Affairs of Scotland*; Calderwood, *History of the Kirk of Scotland* (selected documents); Donaldson, *Thirds of Benefices*; James VI, *Basiliikon Doron*; Johnston of Wariston, *Diary*, vol. i; Rogers, *The Earl*

¹ This course will not be offered in session 1959-60.

Faculty of Arts

of *Stirling's Register of Royal Letters*; Row, *History of the Kirk of Scotland*; Sprott, *Scottish Liturgies of the Reign of James VI* (1871 ed.) *A Large Declaration*. The records of the Parliament, Privy Council and General Assembly, and other publications of H.M. Stationery Office and the historical clubs will be referred to, and consulted, during the course.

Recommended for reading:—Mathieson, *Politics and Religion*; Pearson, *Church and State*; Spottiswoode, *History of the Church of Scotland*; Masson, *Introduction to Register of the Privy Council*, 2nd ser. vol. i; McCrie, *Andrew Melville*; Snow, *Patrick Forbes*; McMillan, *The Worship of the Scottish Reformed Church*; Donaldson, *The Making of the Scottish Prayer Book of 1637*; Sykes, *Old Priest and New Presbyter*.

The Sources of Scottish History

PROFESSOR DICKINSON and Dr. DONALDSON

Four or five meetings, once a week, in the summer term, at a time to be arranged.

This seminar is intended for students who propose to proceed to research in Scottish History.

The main sources, and the various indexes and guides to their use, will be examined and discussed.

Palæography

Twice a week in autumn and spring, at times to be arranged. This course is based on a practical study of Scottish records, and is designed to prepare students for research. Some knowledge of Latin is indispensable. Students other than those taking the degree of M.A. with Honours in History or in Scottish Historical Studies can be admitted if there are vacant places.

DEGREE OF M.A. WITH HONOURS IN SCOTTISH HISTORICAL STUDIES

Curriculum.

The following is the curriculum for the degree of M.A. with Honours in Scottish Historical Studies:

1st Year:

- (i) Scottish History (Ordinary).
- (ii) Outside subject (Latin, or French, or German, or Scots Law, or Constitutional Law).

2nd Year:

- (i) Scottish History (Second Ordinary).
- (ii) European History (Ordinary).
- (iii) Outside subject.

3rd Year:

- (i) Scottish History Honours (I).
- (ii) European History Honours (I, II, III or IV).
- (iii) Course preparatory to Special Subject to be taken in the fourth year.

Students offering Celtic as a Special Subject must consult the Professor of Celtic in regard to the arrangement of their courses at the beginning of the first year of the curriculum. Students offering Celtic II who have no previous knowledge of Scottish Gaelic must take the Elementary Course in Gaelic during their first year of study. Students offering English Language should consult the Professor of English Language not later than the beginning of their second year.

4th Year:

- (i) Scottish History Honours (II).
- (ii) Special subject: one of the following:—
 - (a) Celtic I (Early Irish and some Welsh).
 - (b) Celtic II (Late Irish and Scottish Gaelic).
 - (c) English Language (Middle English and Middle Scots and Old Norse).
 - (d) Economic History (Honours Course).
 - (e) Ecclesiastical History (Honours Course).
 - (f) Scottish Literature.
 - (g) Scottish Arts and Archæology.

Examination.

The Honours examination is as follows:—

- 4 papers in Scottish History.
- 2 papers in European History.
- 2 papers in a Special Subject.

ECCLESIASTICAL HISTORY

REV. PROFESSOR BURLEIGH and REV. A. C. CHEYNE

Ordinary Course

There are two courses, I and II, either of which qualifies for the Ordinary M.A. degree. I meets at 9 and II at 10. Students will be required, before admission to either course, to show that they possess a knowledge of Latin sufficient to enable them to undertake the work of the class.

Course I.—Professor Burleigh will lecture on the history of the Church to A.D. 600.

Books recommended:—Walker, *History of the Church*; Kidd, *History of the Church to 461*; Duchesne, *Early History of the Church*; Mackinnon, *From Christ to Constantine*.

Class examination dates: As announced in class.

Course II.—Mr. Cheyne will lecture on the history of the Church from the fourteenth to the end of the sixteenth century.

Books recommended:—Williston Walker, *History of the Church*; T. M. Lindsay, *The History of the Reformation*; J. Mackinnon, *Origins of the Reformation, Luther and the Reformation, Calvin and the Reformation*; S. M. Jackson, *Huldreich Zwingli*; John Knox, *History of the Reformation* (ed. Dickinson); J. A. Duke, *The Church of Scotland to the Reformation*; A. R. MacEwen, *A History of the Church in Scotland*; Lord Eustace Percy, *John Knox*; Henry Cowan, *John Knox*; F. M. Powicke, *The Reformation in England*; E. G. Rupp, *The English Protestant Tradition*; T. M. Parker, *The English Reformation to 1558*; B. J. Kidd, *The Counter Reformation*; relative chapters in the *Cambridge Modern History*.

Class examination dates: As announced in class.

DEGREE EXAMINATIONS

The papers will not be the same as for the B.D. degree, and the standard of attainment will not be so high.

Honours Courses

REV. PROFESSOR BURLEIGH and REV. A. C. CHEYNE

Course I.—At times to be arranged. The subject is the history of the Church from A.D. 313 to 431.

Faculty of Arts

Books prescribed:—Socrates, *Ecclesiastical History*; Kidd, *Documents illustrative of the History of the Church*, ii; St. Augustine, *De Civitate Dei*, especially Bk. xix, and *Epistles* on the Donatist Controversy.

Course II.—The Reformation in its Calvinist Form. At times to be arranged.

Prescribed texts:—Calvin's *Institutes*; Kidd's *Documents of the Continental Reformation*; *The Scots Confession*; Knox's *First Book of Discipline*; Knox's *Liturgy*.

ANCIENT (GREEK AND ROMAN) HISTORY

Dr. CADOUX, Senior Lecturer; Dr. WALSH, Lecturer

Ordinary Course

Entrance qualification for this class:—A pass in Latin on at least the lower standard in the Leaving Certificate or the Preliminary examination (or some equivalent evidence of proficiency). Class hours:—Tues., Thurs. and Fri. at 12. Students intending to read for Honours in Classics are recommended to take this course in their first year.

Books recommended for reading in connection with the lectures:—Warde Fowler, *City-State of the Greeks and Romans*; Kitto, *The Greeks*; Barrow, *The Romans*; Lowes Dickinson, *The Greek View of Life*; Toynbee, *Hellenism*; Greenidge, *Greek Constitutional History and Roman Public Life*; Bury, *History of Greece and Roman Empire*; C. E. Robinson, *History of Greece and History of the Roman Republic*; the several volumes of Methuen's *History of the Greek and Roman World* (ed. Cary); Cary, *History of Rome*; Pelham, *Outlines of Roman History*; Heitland, *Short History of the Roman Republic*; Scullard, *From the Gracchi to Nero*; Stuart Jones, *Roman Empire*; Wells and Barrow, *Short History of the Roman Empire*; Arnold, *Roman Provincial Administration*; Stevenson, *Roman Provincial Administration*; Cobban, *Senate and Provinces*; Charlesworth, *Roman Empire*; Breasted, *Ancient Times*; Grant, *Ancient History*; Gordon Childe, *What Happened in History*; Glover, *The Ancient World*; Mattingly, *Outlines of Ancient History*; Laistner, *Survey of Ancient History*; Cary and Haarhoff, *Life and Thought in the Greek and Roman World*.

Books recommended for reference and extended reading:—*The Cambridge Ancient History*, vols. i-xii; Rostoftzeff, *History of the Ancient World, Social and Economic History of the Hellenistic World, and Social and Economic History of the Roman Empire*; Cary, *Geographical Background of Greek and Roman History*; Grote, *History of Greece*; Holm, *History of Greece*; Glotz, *Greek City and its Institutions*; Halliday, *Growth of the City State*; Zimmern, *Greek Commonwealth*; Ure, *Origin of Tyranny*; Andrewes, *The Greek Tyrants*; Hignett, *Athenian Constitution*; Freeman, *Work and Life of Solon*; Grundy, *Great Persian War and Thucydides and the History of his Age*; Burn, *Pericles and Athens*; Henderson, *Great War between Athens and Sparta*; A. H. M. Jones, *Athenian Democracy*; Tarn, *Hellenistic Civilisation*; Mommsen, *History of Rome and Provinces of the Roman Empire*; Heitland, *Roman Republic*; Rice Holmes, *Roman Republic and Architect of the Roman Empire*; Marsh, *Founding of the Roman Empire*; Syme, *Roman Revolution*; Hill, *Roman Middle Class*; Wirszubski, *Libertas as a Political Idea at Rome*; Gibbon, *Decline and Fall* (ed. Bury), vols. i and ii; Walbank, *Decline of the Roman Empire in the West*; Frank, *Economic History of Rome*; Collingwood, *Roman Britain*. Other works will be indicated in class.

Class examination dates, see p. 472.

DEGREE EXAMINATIONS

The general course of Greek History to the Roman Conquest, with special reference to the history of Athens; and of Roman History to the Foundation

Courses of Instruction (Hist. and Law)

of Constantinople, with special reference to the republican and imperial constitutions and the government of the provinces. Candidates will be expected to show knowledge of the subject-matter of the Greek and Roman historians, as referred to in the class lectures.

Honours Half-Courses

Half-courses in Greek and Roman History, studied with a selection of the original sources, are provided as follows:—

(i) Greek History, 600-479 B.C. Prescribed texts: selections from Herodotus, i-vi; Thucydides, i, 1-21; Aristotle, *Constitution of Athens*, 1-22; Tod, *Greek Historical Inscriptions*, 1-21. Recommended modern reading: How and Wells, *A Commentary on Herodotus*; Wells, *Studies in Herodotus*; Myres, *Herodotus*; Gomme, *A Historical Commentary on Thucydides*, vol. i, pp. 1-139.

(ii) Greek History, 478-421 B.C. Prescribed texts: selections from Thucydides, i-iv; Aristotle, *Constitution of Athens*, 20-28; Pseudo-Xenophon, *Constitution of Athens*; selections from Tod, *Greek Historical Inscriptions*. Recommended modern reading: Gomme, *A Historical Commentary on Thucydides*, vols. i-iii; Meritt, Wade-Gery and McGregor, *Athenian Tribute Lists*, vol. iii.

(iii) Greek History, 421-386 B.C. Prescribed texts: selections from Thucydides, v-viii; selections from Xenophon, *Hellenica*, i-v; Aristotle, *Constitution of Athens*, 28-41; selections from Tod, *Greek Historical Inscriptions*. Recommended modern reading: Underhill, *Commentary on the Hellenica of Xenophon*.

(iv) Roman History, 133-63 B.C. Prescribed texts: Greenidge and Clay, *Sources for Roman History*; Sallust, *Catiline*; selections from Bruns, *Fontes Juris Romani*. Recommended modern reading: Greenidge, *History of Rome*, 133-104 B.C.; Hardy, *Some Problems of Roman History*, pp. 1-125, and *The Catilinarian Conspiracy*.

(v) Roman History, 62 B.C.-A.D. 14. Prescribed texts: selections from Cicero, *Select Letters* (ed. How); Velleius, ii, 40-123; Suetonius, *Divus Augustus* (omitting 67-96); selections from Barrow, *Latin Inscriptions*. Recommended modern reading: Taylor, *Party Politics in the Age of Caesar*; Hammond, *The Augustan Principate*; Pelham, *Essays on Roman History*, pp. 21-33, 49-151.

(iv) Roman History, A.D. 14-68. Prescribed texts: selections from Tacitus, *Annals*; selections from Barrow, *Latin Inscriptions*. Recommended modern reading: Marsh, *The Reign of Tiberius*; Momigliano, *Claudius*; Scramuzza, *The Emperor Claudius*; Henderson, *The Life and Principate of the Emperor Nero*; Boissier, *Tacite and L'Opposition sous les Césars*.

The modern works recommended above should in each case be supplemented by the relevant portions of the works listed for the Ordinary course. More detailed advice on reading will be given towards the close of each summer term.

Class hours:—Tues., Thurs. and Fri. at 2 in the autumn and spring terms. Each half-course occupies one term. The whole series is arranged so that (ii) and (v) are repeated every two years, and (i), (iii), (iv) and (vi) every four years. The sequence for the next four years will be as follows:—

- autumn term 1959: Greek History 478-421 B.C. (ii)
- spring term 1960: Roman History 133-63 B.C. (iv)
- autumn term 1960: Roman History 62 B.C.-A.D. 14 (v)
- spring term 1961: Greek History 421-386 B.C. (iii)
- autumn term 1961: Greek History 478-421 B.C. (ii)
- spring term 1962: Roman History A.D. 14-68 (vi)
- autumn term 1962: Roman History 62 B.C.-A.D. 14 (v)
- spring term 1963: Greek History 600-479 B.C. (i)

Faculty of Arts

For Ancient History as a prescribed and as a special subject for Honours in Classics, and for Greek and/or Roman History as an optional subject for Honours in History and Honours in Prehistoric Archaeology, see Index, "Ancient History".

Giles Ancient History Library (Old College)

This library is for the use of students in any of the Ancient History classes.

IMPERIAL AND AMERICAN HISTORY

MR. SHEPPERSON and DR. WADDELL, Lecturers

Mon., Thurs. and Fri. at 2.

General texts for Imperial history:—C. E. Carrington, *The British Overseas* or J. A. Williamson, *A Short History of British Expansion, The Old Colonial Empire and the Modern Empire and Commonwealth*.

Introductory texts for American History:—F. Thistlethwaite, *The Great Experiment*; Edited by H. C. Allen and C. P. Hill, *British Essays in American History*; or Allan Nevins and H. S. Commager, *America, The Story of a Free People*.

Books recommended:—(a) British Imperial History: Jack Simmons, *From Empire to Commonwealth—Principles of British Imperial Government*; K. E. Knorr, *British Colonial Theories, 1570-1850*; G. L. Beer, *The Old Colonial System, 1660-1754*; *American Colonial Documents to 1776* (ed. Merrill Jensen); J. H. Parry and P. M. Sherlock, *A Short History of the West Indies*; R. Pares, *Yankees and Creoles, The Trade between North America and the West Indies before the American Revolution*; V. T. Harlow, *The Founding of the Second British Empire*; V. T. Harlow and F. Madden, *British Colonial Developments—Select Documents, 1774-1834*; R. L. Schuyler, *The Fall of the Old Colonial System*; W. P. Morrell, *British Colonial Policy in the Age of Peel and Russell*; Paul Knaplund, *The British Empire, 1815-1939*; W. K. Hancock, *A Survey of British Commonwealth Affairs*; Nicholas Mansergh, *Survey of British Commonwealth Affairs—Problems of External Policy, 1931-1939*; K. C. Wheare, *The Statute of Westminster and Dominion Status*; Martin Wright, *The Development of the Legislative Council*; M. Clark, *Sources of Australian History*; C. W. De Kiewiet, *History of South Africa, Social and Economic*; Edward Thompson and G. T. Garratt, *Rise and Fulfilment of British Rule in India*; I. L. Evans, *The British in Tropical Africa*; Brinley Thomas, *Migration and Economic Growth; A Study of Great Britain and the Atlantic Economy*. (b) American History: H. S. Commager, *Documents of American History* (specially recommended), or R. Birley, *Speeches and Documents in American History*; R. W. Leopold and A. S. Link, *Problems in American History*; *The Federalist*, edited by Max Beloff; F. J. Turner, *The Frontier in American History*; F. A. Shannon, *America's Economic Growth*; T. A. Bailey, *Diplomatic History of the American People*; C. B. Swisher, *American Constitutional Development*; J. C. Miller, *Origins of the American Revolution*; J. G. Randall, *The Civil War and the Reconstruction*; D. W. Brogan, *Roosevelt and the New Deal*; W. E. Binkley, *American Political Parties*; Merle Curti, *The Growth of American Thought*; J. B. Brebner, *North Atlantic Triangle*; R. A. Humphreys, *The Evolution of Modern Latin America*.

For reference:—*The Cambridge History of the British Empire*; L. H. Gipson, *The British Empire before the American Revolution*; S. E. Morison and H. S. Commager, *The Growth of the American Republic*; C. M. Andrews, *The Colonial Period of American History*.

Class examination dates, see p. 474.

ISLAMIC HISTORY

Rev. Dr. MONTGOMERY WATT, Reader, Mr. KIERNAN, Mr. SHEPPERSON
and Mr. WALSH, Lecturers

Tues., Thurs. and Fri. at 4 during the three terms, with an additional meeting each week for tutorial instruction. A knowledge of oriental languages is not required. The first half of the course deals with the career of Muhammad, the foundation of the caliphate and the history of the Near and Middle East till the end of the eighteenth century. The second half surveys the history of the various Islamic countries since about 1800. Students intending to read for Honours or Intermediate Honours in Arabic, Persian or Turkish are recommended to take this course in their first year. Students of any Faculty interested in a part of the course should apply to the lecturer for permission to attend.

Books recommended:—(a) For preliminary reading: Gibb, *Mohammedanism*; Coon, *Caravan*; Gibb (ed.), *Whither Islam?* (b) As text-books: B. Lewis, *The Arabs in History*; Brockelmann, *History of the Islamic Peoples*; Kirk, *History of the Middle East*; Bullard, *Britain and the Middle East*. (c) For further reading and reference: Sauvaget, *Introduction à l'Histoire de l'Orient Musulman*; Nicholson, *Literary History of the Arabs*; Bell, *The Origin of Islam*; Montgomery Watt, *Muhammad at Mecca, Muhammad at Medina*; Andrae, *Mohammed, the Man and his Faith*; Wellhausen, *The Arab Kingdom and its Fall*; *Cambridge Medieval History*; II, relevant chapters; Diehl et Marçais, *Le Monde Oriental de 399 à 1081*; Gaudefroy-Demombynes, *Muslim Institutions*; Lewis, *The Origin of Isma'ilism*; Mez, *The Renaissance of Islam*; E. Barker, *The Crusades*; W. B. Stevenson, *The Crusaders in the East*; Levi-Provençal, *La Civilisation Arabe en Espagne* and *Histoire de l'Espagne Musulmane*; von Grunebaum, *Medieval Islam*; Wittek, *Rise of the Ottoman Empire*; Creasy, *History of the Ottoman Turks*; Arnold, *The Preaching of Islam*; Gibb, *Modern Trends in Islam*; Antonius, *The Arab Awakening*; Rifaat Bey, *The Awakening of Modern Egypt*; Toynbee, *The Islamic World since the Peace Settlement*; Miller, *The Ottoman Empire and its Successors*; Webster, *The Turkey of Atatürk*; Longrigg, *Four Centuries of Modern Iraq and Iraq 1900 to 1950*; Sykes, *History of Persia*; Elwell-Sutton, *Modern Iran*; W. Cantwell Smith, *Modern Islam in India*; Landon, *South-East Asia*; Gouilly, *L'Islam devant le Monde Moderne*; numerous articles in the *Encyclopedia of Islam*.

Class examination dates, see p. 474.

This course will not be given in session 1959-60.

POLITICAL SCIENCE (The Mackay Lectures)

Mr. DOUGLAS NOBBS, Senior Lecturer

Honours Course

Tues., Wed. and Fri. at 12. The subjects to be studied will be:—In autumn, the history of political theory to Rousseau; in spring, nineteenth-century political thought—the nature of the state, society and government, with the problems of political obligation; and in the summer, the problems of political organisation and modern government, with some reference to post-war political experiments.

Books prescribed:—Hobbes, *Leviathan*; Locke, *Civil Government*; Rousseau, *The Social Contract*; *The Federalist*; Mill, *On Liberty* and *Considerations on Representative Government*.

Books recommended:—(a) Greek and Mediæval:—Barker, *The Political Thought of Plato and Aristotle*; M'Ilwain, *The Growth of Political Thought in the West*; Gierke, *Political Theories of the Middle Ages* (ed. Maitland);

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D'Entrèves, *The Mediæval Contribution to Political Thought*; Troeltsch, *The Social Teaching of the Christian Churches* (trans. Olive Wyon), vol. i. (b) Sixteenth to Eighteenth Centuries:—Figgis, *From Gerson to Grotius*; Gierke, *Development of Political Theory* (trans. Freyd) and *Natural Law* (ed. Barker); Allen, *Political Thought in the Sixteenth Century*; Troeltsch, *Social Teaching of the Christian Churches*, vol. ii; Cobban, *Burke and Rousseau and the Modern State*. (c) Nineteenth Century:—Halévy, *Philosophic Radicalism*; Green, *Principles of Political Obligation*; Bosanquet, *The Philosophical Theory of the State*; Sidgwick, *Elements of Politics*; Dicey, *Law and Public Opinion in England*. (d) Recent Political Theory:—Hobhouse, *Metaphysical Theory of the State and Elements of Social Justice*; M'iver, *The Modern State*; Lippmann, *The Good Society*; Tawney, *The Acquisitive Society and Equality*; Barker, *Reflections on Government*; Lindsay, *The Modern Democratic State*; Elliot, *The Pragmatic Revolt in Politics*; Hocking, *Man and the State*; Laski, *The Grammar of Politics and The State in Theory and Practice*; Wallas, *Human Nature in Politics and The Great Society*; Russell, *Power*. (e) Modern Institutions:—Bryce, *Modern Democracies*; Brogan, *The American Political System and The Development of Modern France*; Laski, *The American Presidency*; Finer, *Theory and Practice of Modern Government*.

Class examination dates, see p. 475.

For Political Science for Honours in Economic Science and History, see Index.

HONOURS CURRICULUM AND FINAL EXAMINATIONS IN HISTORY (1960 and 1961)

Candidates for Honours in History must attend at least four courses in History, two at least of which must be Honours courses. They must have passed the Ordinary degree examination in European History before their final year. The Final Honours examination will comprise:—

1. General British (including Constitutional) History 55 B.C.-A.D. 1603. One paper.
2. General British (including Constitutional) History, 1603-1939. One paper.
3. Documents on British History. One paper on one of the following periods:—
 - (a) 55 B.C.-A.D. 1307
 - (b) 1307-1660
 - (c) 1660-1953.
4. Political Science. One paper.
5. Two papers on one of the following subjects:—
 - (a) European History I, 800-1085
 - (b) European History II, 1378-1494
 - (c) European History III, 1715-1815
 - (d) European History IV, 1856-1939.
6. Two papers on one of the following subjects:—
 - (a) Ecclesiastical History.
Either (i) The History of the Church, 313-431;
Or (ii) The Reformation in its Calvinist form.²

¹ Some alterations in the periods chosen for examination in these subjects may be made after due notice to the students concerned.

² In 1961 the second option in Ecclesiastical History will be "Religion and Politics in Britain 1689-1714."

Courses of Instruction (Hist. and Law)

(b) Scottish History.

Either (i) Feudal Scotland;

Or (ii) Church and State in Scotland, 1567-1638.

(c) Greek and Roman History.

Either (i) *One* of the following periods of Greek History: (a) 600-421 B.C.; (b) 478-386 B.C.;

Or (ii) *One* of the following periods of Roman History: (a) 133 B.C.-A.D. 14; (b) 62 B.C.-A.D. 68;

Or (iii) *One* period of Greek History and *one* period of Roman History from the following:—Greek History (a) 600-479 B.C.; (b) 478-421 B.C.; (c) 421-386 B.C.; Roman History (a) 133-63 B.C.; (b) 62 B.C.-A.D. 14; (c) A.D. 14-68. In each of the alternatives (i), (ii) and (iii), selected portions of the Greek and Latin historical texts and epigraphic documents will be prescribed, as dealt with in the corresponding lecture courses.

(d) The Economic History of England, 1800-1860.

(e) The British in East and Central Africa, 1871-1921.

(f) History of Art.

Either (i) Art of the eighteenth and nineteenth centuries;

Or (ii) Italian Art, c. 1300-1600.

(g) France under Charles VII

(h) British Foreign Policy, and the Diplomatic Revolution, 1740-1760.

(i) History of the Working-Class Movement.

(j) Industrialism and Politics in Britain and America, 1895-1914.

(k) Industrialisation and International Trade 1880-1914.

Before taking the paper selected under 6 above, for options (a) and (f), candidates must have obtained a class certificate in the appropriate Ordinary class. In the case of option (c), this requirement may be waived at the discretion of the Head of the Department of Ancient History.

Kirkpatrick History Library

The library, founded by Professor Kirkpatrick and extended by bequests from his sister and from Sheriff Æneas Mackay, is intended for the use of Honours students in the British, European, Scottish and Economic History, Imperial and American History, Political Science and Constitutional Law classes. The room is open as a reading-room daily during the terms from 9 a.m. to 10 p.m. (except Fri., when it is closed at 8 p.m., and Sat., when it is closed at 1), and books may be borrowed at stated times. The library is under the management of a committee consisting of the Professors of Modern History (Convener), of Medieval History, of Constitutional Law and of Ancient (Scottish) History and Palæography. There is no subscription, but each user of the library must deposit 10s.

PREHISTORIC ARCHÆOLOGY

PROFESSOR PIGGOTT; and Mr. THOMAS, Lecturer

Ordinary Course (Prehistoric Archæology I)

Daily at 5 in autumn and spring. The course will deal with the development of human material culture from man's first appearance down to the beginnings of the historical period, as illustrated by Britain in its European setting. The

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field covered will be the palæolithic period everywhere, the origins of peasant communities in the Orient and Europe, and a detailed examination of British prehistory and its relations with the Continent, up to the Roman Conquest. Where possible, teaching will be based on a first-hand study of the archaeological material in the Department's collection and in the Scottish National Museum. This Syllabus constitutes the first year's course for Honours students.

Books recommended:—Le Gros Clark, *History of the Primates* (1949); Oakley, *Man the Tool-Maker* (1949); Clark, *Prehistoric Europe* (1952); Atkinson, *Field Archaeology* (1953); Childe, *Dawn of European Civilisation* (1957); Piggott, *British Prehistory* (1949).

Reference books:—Zeuner, *Dating the Past* (1950); Coon, *Races of Europe* (1939); Clark, *Mesolithic Settlement of Northern Europe* (1936); Grimes and Savory, *Prehistory of Wales*, *Nat. Mus. Wales* (1951); Childe, *Danube in Prehistory* (1929), *Prehistory of Scotland* (1935) and *Scotland before the Scots*; Piggott, *Neolithic Cultures of British Isles* (1954).

Class examination dates, see p. 475.

Honours Course (Prehistoric Archaeology II and III)

The class will be held at times to be arranged. The first year's syllabus for Honours students is the Honours course (Prehistoric Archaeology I) with the addition of three hours a week in the summer term in archaeological field survey, etc. Prehistoric Archaeology II and III (three hours a week) comprise a systematic training in European prehistory and archaeological method. In the fourth year students will undertake individual research to be embodied in a thesis, and throughout the course will learn to use original sources in libraries, museums and the field. A reading knowledge of German and French is desirable. Students must also work for at least one month continuously during the Easter or summer vacation on an excavation approved by the Professor. The cost of this field work is likely to be about £20.

Books recommended, in addition to those noted for the Ordinary course:—Ebert, *Reallexikon der Vorgeschichte* (1924-32); Déchelette, *Manuel d'Archéologie Préhistorique* (1908-14); Schaeffer, *Stratigraphie comparée de l'Asie Occidentale* (1948); Pitt-Rivers, *Excavations in Cranborne Chase* (1887-98); Abercromby, *Bronze Age Pottery* (1912); Hawkes, *Prehistoric Foundations of Europe* (1940); Leisner, *Die Megalithgräber der Iberischen Halbinsel* (1943); Jacobsthal, *Early Celtic Art* (1944); Mavius, *The Irish Stone Age* (1942); Wheeler, *Maiden Castle* (1943); Fox, *Pattern and Purpose* (1959); Daniel, *Prehistoric Chamber Tombs of England and Wales* (1950); Laming (ed.), *La Découverte du Passé* (1952); *Urgeschichte Deutschlands* (1938-53); *Danske Oldsager* (1948-); Cornwall, *Bones for the Archaeologist* (1956); Singer et al., *History of Technology*, vol. i-ii (1954-56).

HONOURS CURRICULUM AND FINAL EXAMINATIONS IN ARCHÆOLOGY

The curriculum for candidates for the degree of M.A. with Honours in Archaeology is as follows:—

1st Year:

Prehistoric Archaeology I.

Ordinary course in European History, or Scottish History, or Ancient History. A pass in Latin is required as an entrance qualification for the European History option.

One or both of two outside subjects, of which one must be an ancient or modern foreign language.

Courses of Instruction (Hist. and Law)

2nd Year:

Prehistoric Archæology II.

Honours course in European or Mediæval Scottish History (if not taken in third year); or Honours Ancient History (first half-course).

Second outside subject (if not taken in first year).

Geography (Geomorphology).

Fine Art, first half of Ordinary course (one term).

3rd Year:

Prehistoric Archæology III.

Honours course in European or Mediæval Scottish History (if not taken in second year); or Honours Ancient History (second half-course).

Fine Art II (two terms) unless taken in fourth year.

4th Year:

Prehistoric Archæology IV.

Fine Art II (unless taken in third year).

Note.—Ancient History Honours consists of two half-courses provided in the autumn and spring term. The two selected will be taken in the candidate's second and third years, and the examination (two papers) will be held in the third year.

Prehistoric Archæology Library and Teaching Collections

The Department is in 19-20 George Square, where students have access to the class library and teaching collections.

Munro Lectures

The Munro Lectures on Anthropology and Prehistoric Archæology will be delivered on dates to be announced later.

FINE ART

PROFESSOR TALBOT RICE; Mr. ROBERTSON and Mr. CARR, Lecturers

Ordinary Course

Lectures at 5 on Mon., Tues. and Thurs., and visits to galleries or special study on Wed. at 3, in autumn and spring. Tutorials and occasional classes in the summer, by arrangement, at the same hours.

The attention of students reading other subjects is drawn to this course, as part of a liberal education.

The lectures aim at giving a general outline of the history of art in Europe, with a view to increasing appreciation. After a short survey of the classical age, attention is paid chiefly to the development and character of the main architectural and artistic styles of the Christian period. Selected artists, subjects and periods are dealt with in greater detail at intervals throughout the course. Special consideration is given to the influence of external factors (climatic, geographical, social, religious, historical, etc.), the continuity and diffusion of art and principles of art criticism. The later work of the class includes the practical study and criticism of works of art in the galleries of Edinburgh, and a knowledge of these as well as of text-books is considered essential.

Books prescribed:—Students should be familiar with the relevant chapters of Gombrich, *The Story of Art*, and Talbot Rice, *Teach Yourself to Study Art*, before entering upon the course. Gardner, *Art through the Ages*; Holmes, *A Grammar of the Arts*; *Catalogue of the National Gallery of Scotland*.

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Books recommended:—Herbert Read, *The Meaning of Art*; Beazley and Ashmole, *Greek Sculpture and Painting*; Lethaby, *Mediæval Art*; E. Kitzinger, *Early Mediæval Art*; Berenson, *Italian Painters of the Renaissance*; Holmes, *Introduction to Italian Painting*; Friedlander, *Flemish Painting*; Fry, *Vision and Design and Cézanne*; K. Clark, *Landscape into Art and The Nude*.

Class examination dates, see p. 473.

The Professor is always ready to give students further advice on literature or any other matter connected with the study of art.

Course for Honours Students in History

A candidate for Honours in History, taking History of Art as his Special Subject, must undertake two years of study. In the first year he is required to follow the Ordinary course, with additional special reading in the history of art. In the second year he will follow either the Intermediate Honours course or one of the Honours courses in Fine Art; in the former case additional reading is required.

Courses for Honours Students in Language and Literature

Students reading for an Honours degree in French, German, Spanish, or Italian are invited to attend such parts of the Ordinary Fine Art course as deal with the countries whose literature they are studying, with a view to extending their knowledge of that country's civilisation. Special short courses on aspects of British art are also arranged for those reading for Honours in English Literature. An optional question on the work covered will, where possible, be included in the Final Honours examination. Students who propose to follow such courses should visit the Department of Fine Art during the afternoon of any day during the first week of the session to arrange the dates and times of the classes and to meet the Professor of Fine Art.

Intermediate Honours Course

Tues., Wed. and Thurs. at 11 in autumn and spring. Subject:—Art of the seventeenth and eighteenth centuries. The seventeenth century will be dealt with in the first term, the eighteenth in the second. Special attention will be paid to artists whose work can be studied at first hand in Edinburgh. Students are also expected to have a knowledge of the major movements of the nineteenth century, and optional questions covering this period will be included in the examination.

Books prescribed:—A. Blunt, *Art and Architecture in France, 1500-1700* (relevant chapters); Fromentin, *Les Maîtres d'Autrefois*; W. T. Whitley, *Artists and their Friends in England, 1700-1799*; J. T. Smith, *Nollekens and his Times*; E. K. Waterhouse, *Painting in Britain, 1530-1790* (relevant chapters); T. S. R. Boase, *English Art, 1800-1870*; E. and J. de Goncourt, *French Art in the Eighteenth Century*; Holmes, *The National Gallery—France and England*; Caw, *Scottish Painting*; Rewald, *Impressionism*.

Other books will be recommended from time to time as the course proceeds.

Class examination date, see p. 473.

Students reading for Honours in Fine Art will also be required to attend the Introductory course on Classical Art and Archæology in the summer term. They will be required to write essays and do the normal written work of the class, but will not sit the examination. Optional questions on the subject will, however, be included in the Final Honours papers.

Courses of Instruction (Hist. and Law)

Honours Courses

Tues., Thurs. and Fri. at 3 in autumn and spring. Course I will be given in 1959-60, Course II in 1960-61.

Course I.—Aspects of Mediaeval Art

PROFESSOR TALBOT RICE

The course is mainly concerned with developments in painting in the Christian world from the foundation of Constantinople until the fifteenth century; the East is dealt with in the first term, the West in the second.

Books prescribed:—Grabar, *Byzantine Painting*; Talbot Rice, *Byzantine Art and The Beginnings of Christian Art*; Demus, *Byzantine Mosaic Decoration*; Martin Conway, *The Van Eycks and their followers*; Baldass, *Jan Van Eyck*; E. Panofsky, *Early Netherlandish Painting*; Friedlander, *Early Flemish Painting*.

Other books will be recommended from time to time during the course.

Course II.—Italian Art, 1300-1600

MR. ROBERTSON

Books prescribed:—Lorenzo Ghiberti, *Commentaries* (abridged translation of Courtauld Institute); Giorgio Vasari, *Lives of the Painters, etc.* (Introductions to Parts 1, 2 and 3. Lives of Uccello, Masaccio, Brunelleschi, Donatello, Piero della Francesca, Leonardo da Vinci, Raphael, Michelangelo and Titian); Ascanio Condivi, *Life of Michelangelo* (Translated in Holyrood's *Michelangelo*); Carlo Ridolfi, *Life of Tintoretto* (Translation of Courtauld Institute).

Books recommended:—W. J. Anderson, *The Architecture of the Renaissance in Italy*; John Pope-Hennessy, *Italian Gothic Sculpture*; J. L. Pope-Hennessy, *Italian Renaissance Sculpture*; Sir Eric Maclagan, *Italian Sculpture of the Renaissance*; Crowe and Cavalcaselle, *History of Painting in Italy and History of Painting in North Italy*; Anthony Blunt, *Artistic Theory in Italy*; Mrs Kennedy, *Alessio Baldovinetti*; Roberto Longhi, *Piero della Francesca*; Sir Kenneth Clark, *Leonardo da Vinci*; Crowe and Cavalcaselle, *Life of Titian*; E. Sandberg-Vavalà, *Uffizi Studies and Sienese Studies*; John White, *The Birth and Rebirth of Pictorial Space*.

A weekly seminar or tutorial class will be attended at the University in the fifth year at times to be arranged.

Course in Islamic Art

At times to be arranged. The course is primarily intended for students offering Oriental Languages for the M.A. Honours degree. Islamic architecture, painting, ceramics, textiles and other arts will be dealt with by the Professor of Fine Art in a series of introductory lectures. Selected works of art, notably manuscripts in the University Library, will also be studied in greater detail.

REGULATIONS FOR THE DEGREE OF M.A. WITH HONOURS IN FINE ART

1. The curriculum, normally extending over not more than five years from the date of first matriculation in the Faculty of Arts, is taken partly at the University and partly at the Edinburgh College of Art. The theoretical part of the curriculum is taken mainly at the University and the practical classes at the College of Art.

2. Applicants for entry upon the curriculum must obtain the Attestation of Fitness (see Programme of Admission, pp. 3-4), and must also pass an entrance test prescribed by the College of Art.

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3. The part of the curriculum taken at the University comprises (a) the Ordinary and Intermediate Honours courses in Fine Art, taken in the first two years; (b) two subjects outside the Honours Group, taken respectively in the first and second years; (c) the Honours classes, consisting of (i) History of Art, Course I; (ii) History of Art, Course II; (iii) Aesthetics; (d) the preparation of a short dissertation on a set subject in the fifth year.

4. One of the subjects outside the Honours Group must be Logic and Metaphysics, Moral Philosophy or European History.

5. At the beginning of the second year students must satisfy the Professor of Fine Art that they have a reading knowledge of at least one modern foreign European language.

6. The part of the curriculum taken at the College of Art comprises (a) a general preliminary course extending over the first two years, and (b) a specialised course extending over the third, fourth and fifth years. A course in sculpture may be arranged, but the curriculum will extend over six instead of five years.

7. At the end of the fourth year candidates will be examined on their University work in an Honours examination of five papers, one on aesthetics and two on each of the Honours courses in Fine Art. They will also submit their dissertation (para. 3 above) not later than 14th May in the final year.

8. In subjects taken at the College of Art, students will be required at the end of their final year to present original work executed in the College.

9. The final classification for the Honours degree will be determined on the recommendation of a joint board of examiners drawn from the University and the College of Art on the basis of Regulations 7 and 8 above, supplemented by a *viva voce* examination before the joint board.

CLASSICAL ARCHÆOLOGY

Mr. GOUGH, Lecturer

Introductory Course

(Classical Art and Archæology)

Mon., Wed. and Fri. at 9 in summer. Although intended primarily for Honours students in Classics (who normally attend it in their first year), this course is also suitable for other students interested in Classical art. The lectures deal with the outlines of Pre-Hellenic archæology and the general history of Greek and Roman architecture, coinage, painting and sculpture.

Honours Course

This course is given in two parts, each of about twenty-five lectures, in the spring and summer terms at times to be announced. Together with the Introductory course it covers the work prescribed for Honours students in Classics who offer Classical Archæology as their Special Subject. The course covers Greek architecture, painting and sculpture; Roman architecture and sculpture and the archæology of Roman Britain. The lectures on Roman Britain are also suitable for other students wishing to obtain some idea of the material culture of Britain during the Roman period.

To supplement their reading, students are encouraged to gain first-hand experience of Greek and Roman antiquities by visiting museums in Edinburgh and elsewhere. Arrangements can also normally be made for students who wish to do so to take part in approved excavations during the summer vacation.

Courses of Instruction (Hist. and Law)

PUBLIC LAW

PROFESSOR CAMPBELL; Mr. DICK, Lecturer

Tues., Wed., Thurs. and Fri. at 10 during the autumn and spring terms. Tutorial instruction is also given.

The lectures in the autumn term deal with the **Elements of Jurisprudence** and in the spring term with **Public International Law**. (The course of lectures on Advanced Jurisprudence in the summer term is not for Arts students.)

The spring term course on Public International Law counts as a qualifying half-course for the B.Com. degree.

Attendance on these courses also qualifies for admission to certain degree examinations in the Faculty of Law and a student whose work in the Arts degree examination in Public Law reaches a sufficiently high standard may be exempted from certain examinations for the degree of LL.B.

Jurisprudence I (Elements of Jurisprudence)

The lectures deal with the nature, function and evolution of law; the history of legal systems and of legal theory; the sources of legal rules.

No text-book is prescribed but the following works may be studied with profit: Paton, *Text-book of Jurisprudence* (2nd ed.), chs. I to X, XIV and XV; Dias and Hughes, *Jurisprudence*, Parts I and III; Salmond, *Jurisprudence* (11th ed.), Introd. and Book I; Keeton, *Elementary Principles of Jurisprudence* (2nd ed.) Part I; Buckland, *Some Reflections on Jurisprudence*; Kantorowicz, *The Definition of Law*.

The following may be consulted on special topics:—

For the evolution of law: Maine, *Ancient Law*; Diamond, *Primitive Law*.

For the history of legal systems: Vinogradoff, *Roman Law in Medieval Europe*.

For the history of legal theory: D'Entrèves, *Natural Law*; Del Vecchio, *Philosophy of Law*; Friedmann, *Legal Theory*; Dickey, *Law and Public Opinion in England in the Nineteenth Century*.

For the Austinian Theory: Austin, *Jurisprudence*, Lectures I, V and VI.

For Kelsen's Theory: Kelsen, *General Theory of Law and State*.

For the theory of Justice: Del Vecchio, *Justice*.

For the sources of legal rules: Allen, *Law in the Making*; Smith, *Judicial Precedent in Scots Law*.

Public International Law

The lectures deal with the history of international law, the elements of the law of peace and of the law of war, international organisation and international tribunals.

Text-books:—Brierly, *The Law of Nations* (5th ed.); Starke, *Introduction to International Law* (latest ed.); the Charter of U.N.O. and the Statute of the International Court.

For reference:—Nussbaum, *Concise History of the Law of Nations*; Oppenheim, *International Law* (ed. Lauterpacht); Schwarzenberger, *International Law*; Nicolson, *Diplomacy*; Wortley ed., *The United Nations*; Pitt Cobbett, *Leading Cases on International Law*; Green, *International Law through the Cases*; McNair, *International Law Opinions*; the *British Yearbook of International Law*.

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INTERNATIONAL RELATIONS

PROFESSOR WISKEMANN

The lectures are given on Mon. and Wed. in the spring term at 5. They will deal mainly with current problems of international organisation and with the history of international politics between the wars.

CIVIL (ROMAN) LAW

PROFESSOR SMITH; and Mr. HAMNETT, Lecturer

Entrance qualification for this class:—A pass in Latin on the lower standard in the Leaving Certificate of the Preliminary examination (or some equivalent evidence of proficiency). Class hours:—Mon., Tues., Thurs. and Fri. at 2 during the three terms. Tutorial instruction is also given, including criticism of students' essays. The lectures are adapted to the requirements of students qualifying for the legal profession. The course is divided as follows:—

I. HISTORICAL INTRODUCTION.—Outline of the history of Roman Law and of the subsequent world wide extension of Civil Law influences in mediæval and modern times; the relation of Civil Law to general jurisprudence and to Scots Law; sources, codification and interpretation. This part of the course is intended to serve as an introduction to the study of the Institutes and of the Civil Law in Modern Practice.

II. INSTITUTES.—Systematic study of the Roman Law regarding Persons, Property, Succession and Obligations.

III. CIVIL LAW IN MODERN PRACTICE.—Problems of the Civil Law in Scots Law and in modern codified and "mixed" systems, with special reference to the law of Obligations.

Recommended reading:—Students are advised to read a general introduction to Roman Law, such as the short books of Lee or Muirhead, with Lee's *Historical Conspectus of the Roman Law*, before they enter the class in Civil Law. During the course students will be given guidance as to their reading for particular topics and for essay purposes. They will, however, be expected to study the originals of the Institutes of Gaius and Justinian, and also portions of prescribed Titles of the Digest. In addition, the following works may be studied with profit for HISTORY and INSTITUTES:—

H. F. Jolowicz, *Historical Introduction to Roman Law*; P. Vinogradoff, *Roman Law in Mediæval Europe*; H. J. Wolff, *Roman Law*; W. W. Buckland, *Manual of Roman Private Law*; R. W. Leage, *Roman Private Law*; R. W. Lee, *Elements of Roman Law*; J. S. Muirhead, *Outline of Roman Law*; and for more detailed study, Sohm's *Institutes* (trans. Ledlie), F. Schulz, *Roman Legal Science and Classical Roman Law*; W. W. Buckland, *Textbook of Roman Law*.

For Civil Law in modern practice, the following works may be consulted:—for Scots Law: T. B. Smith, *Development of the Laws and Constitution of Scotland*, vol. i, British Commonwealth Series; for Contract: P. Stein, *Fault in the Formation of Contract in Roman Law and Scots Law*; for Delict: F. H. Lawson, *Negligence in the Civil Law*; generally, J. Mackintosh, *Roman Law in Modern Practice*; Buckland and McNair, *Roman Law and Common Law*, 2nd ed.; A. von Mehren, *The Civil Law System (Cases and Materials)*.

DEGREE EXAMINATIONS

The examinations will be on the subjects specified above.

DEGREES OF BACHELOR AND MASTER OF ARCHITECTURE

Department of Architecture

PROFESSOR MATTHEW; Mr. STEVENSON, Mr. JOHNSON-MARSHALL and Mr. CLARK,
Senior Lecturers; Mr. NUTTGENS and * * *, Lecturers

The degree of Bachelor of Architecture with Honours and the degree of Master of Architecture may be conferred by the University of Edinburgh.

The Department of Architecture is in 16 George Square.

The first three years of the five-year course leading to the degree of Bachelor of Architecture will be taken mainly in the Edinburgh College of Art. There will be weekly seminars and field work at the University.

Preliminary Qualifications and Admission to Classes

For details of the Attestation of Fitness issued by the Scottish Universities Entrance Board, see the Programme of Admission, pp. 3-4.

Entrance requirements for particular classes are as follows:—

- (a) Architectural Design: Satisfactory performance in the entrance test at the Edinburgh College of Art to be held in May prior to admission.
- (b) Structural Design IV: Before attending the course, students must have obtained a pass in Mathematics at the higher standard of the Scottish Universities Preliminary Examination (or its equivalent), provided that in special cases, after consultation with the Dean of the Faculty, a student may be accepted for this course with a pass at the lower standard (or its equivalent) if he holds a pass at a higher standard in a modern foreign language.
- (c) History and Theory of Architecture II: Before attending the course at the beginning of the second year of study, students must satisfy the Professor of Architecture that they have a reading knowledge of at least one modern foreign European language.

Applications for Admission

Prospective entrants for the degree of B.Arch. must apply to the Secretary, Edinburgh College of Art, Lauriston Place, Edinburgh 3, for forms of admission to the course and return them by 25th April. During October, students should matriculate and pay their fees at the University.

Applicants for the 4th and 5th years of the course should apply directly to the Faculty of Arts by 1st July on forms to be obtained from the Matriculation Office, Old College.

Those wishing to undertake post-graduate study or research for the degree of Master of Architecture should consult the Professor of Architecture.

Regulations for Degrees in Architecture

I. Two degrees in Architecture may be conferred by the University of Edinburgh, namely, Bachelor of Architecture (B.Arch.) and Master of Architecture (M.Arch.).

II. Every candidate for the degree of Bachelor of Architecture must satisfy the conditions as to admission to the Scottish Universities for the purpose of graduation as specified under Ordinance of the University Courts No. LXX (General No. 3—Regulations as to Admission to the Scottish Universities for the purpose of Graduation), or under any Ordinance altering or amending that Ordinance.

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Degree of Bachelor of Architecture

III. The curriculum for the degree of Bachelor of Architecture shall extend over not less than five academical years.

The subjects of instruction shall include: The History and Theory of Architecture, Architectural and Structural Design, Building Construction and Science, and such additional subjects as the Senatus, with the approval of the University Court, may from time to time determine.

The Senatus, with the approval of the University Court, may from time to time by regulation determine (a) the selection, order and grouping of the subjects; (b) that particular subjects shall, for the purpose of examination, be sub-divided or combined or transferred from one examination to another; and (c) the character and standards of the degree examinations and the conditions of admission thereto.

Provided always that the University Court shall communicate to the General Council all such regulations, and that any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

IV. The Senatus, with the approval of the University Court, may exempt from attendance and examination, but only in respect of the first three years of the curriculum, students who have attended classes and passed appropriate examinations in any other approved University or Institution, always provided that matriculated students may not be completely exempted, in any of the first three years of the course, from attendance for instruction within the University.

V. The examinations for the degree of Bachelor of Architecture shall be:

- (a) Examinations in subsidiary subjects;
- (b) A first examination in the main subjects of the curriculum; and
- (c) A final examination.

Examinations in the subsidiary subjects shall be held at the end of the respective courses of instruction. The first examination in the main subjects shall be held at the end of the third year of the curriculum.

VI.—(1) A candidate may not proceed to the fourth year of the curriculum until he has passed the first examination. A candidate may not present himself for the final examination until he has passed the examinations in the subsidiary subjects.

(2) A candidate may not present himself for examination in any subject unless he produces a certificate that he has regularly attended and duly performed the work of the course in that subject.

(3) Candidates in the final examination may be awarded an Honours degree and there shall be three grades of Honours, to be denominated, First, Second and Third Class. In each class the names of the students entitled to Honours shall be arranged in alphabetical order.

(4) The award of grades of Honours shall be based on the candidate's performance in the Final Examination.

(5) A candidate may not present himself for re-examination for the degree of Bachelor of Architecture.

VII. Candidates who produce certificates that they have satisfied all the conditions prescribed in this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Architecture on payment of the fees required, and the graduate shall receive a diploma wherein shall be set forth the subjects in respect of which the degree has been granted.

Degree of Master of Architecture

VIII. Every candidate for the degree of Master of Architecture, before being admitted to a course of special study or research leading to the degree (a) must have obtained the degree of Bachelor of Architecture in the University of Edinburgh or a degree in Architecture in another University recognised for this purpose by the University Court on the recommendation of the Senatus Academicus, provided that the Senatus Academicus may, in exceptional circumstances, and with the approval of the University Court, admit to a course of special study or research for the degree a candidate who possesses such other qualifications in Architecture as the Senatus may approve for this purpose; and (b) must have satisfied the Senatus Academicus of his fitness to undertake advanced study or research.

IX. Every candidate for the degree of Master of Architecture shall pursue a full-time course of special study or research in the University of Edinburgh for a period of not less than two academical years, provided that this period may be reduced to one of not less than twelve consecutive months in the case of Honours graduates of the University of Edinburgh, and that graduates of the University of Edinburgh may by special permission of the Senatus Academicus be permitted to prosecute their studies elsewhere.

X. The Senatus Academicus may require a candidate to attend classes relevant to his proposed course of special study or research.

XI. Every candidate for the degree shall be required to matriculate each year of his prescribed period of special study or research, paying the appropriate fee.

XII.—(1) On the completion of his special study or research each candidate shall present a dissertation embodying the result of his work. The examiners shall, at their discretion, test the candidate orally on the subject-matter of his dissertation and shall in addition, conduct such written examinations as the Senatus may prescribe.

(2) The dissertation shall consist either of a record of research undertaken by the candidate or of a critical survey of knowledge in an approved field of study.

(3) A dissertation may not be presented before the candidate has completed a period of study of twelve consecutive months, and except by special permission of the Senatus Academicus may not be presented later than four years after the candidate's admission to a course of special study or research for the degree.

(4) A candidate may not include in his dissertation any work presented in fulfilment of the requirements for any other degree or professional qualification.

Examiners

XIII.—(1) For the degree examinations for the degree of Bachelor of Architecture the examiners shall be the Professors and Lecturers in each subject of the course, together with additional examiners appointed by the University Court in terms of Section XVIII of Ordinance No. LXX (General No. 3).

(2) The examiners for the degree of Master of Architecture shall be the Professor of Architecture, an additional examiner or examiners appointed by the University Court subject to the provisions of Section XVIII of Ordinance No. LXX (General No. 3) and such other examiner or examiners, being Professors, Readers or Lecturers in the University of Edinburgh, as the University Court may deem necessary to appoint.

General

XIV. On and after the date at which the Ordinance comes into operation, University Court Ordinance No. 84 (Regulations for degrees in Arts, Supplementary to Ordinance No. XXII (Edinburgh No. 11)) is hereby repealed in so

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far as it concerns the degree of Master of Arts with Honours in Architecture; provided always that a student who, at the date when this Ordinance comes into operation, has already commenced a course of study in the University of Edinburgh with a view to graduation in Arts in Architecture under the Regulations in force at that time, may complete his course and become a candidate for the degree of Master of Arts with Honours in Architecture in that University in conformity with such regulations, but, if any such student elect to complete his course with a view to graduation under the Regulations made under this Ordinance, the Senatus shall have power to determine the conditions under which the courses of study pursued and the examinations passed by him may be accepted as equivalent to the courses and examinations prescribed under this Ordinance.

XV. The degree of Bachelor of Architecture and Master of Architecture conferred under this Ordinance shall not be conferred *honoris causa tantum*, nor on any persons who have not satisfied the conditions hereinbefore set forth, except under the provision contained in University Court Ordinance No. CCXVIII (Edinburgh No. 75—Consolidation and Amendment to Regulations as to Offices of Reader and Lecturer, and Admission to Membership of Senatus and Faculties) Section VIII.

Additional Regulations for B.Arch.

1. The curriculum for the degree of Bachelor of Architecture shall extend over five academical years, the first three years to be taken mainly at the Edinburgh College of Art, and shall include the following subjects:—

1st Year:

- Drawing Techniques I.
- History and Theory of Architecture I.
- Architectural Design I.
- Structural Design I (including Mathematics).
- Building Construction I.
- Fine Art.

2nd Year:

- Drawing Techniques II.
- Architectural Appreciation.
- History and Theory of Architecture II.
- Architectural Design II.
- Structural Design II.
- Building Construction II.

3rd Year:

- History of Architecture (selected period) III.
- Architectural Design III.
- Design Project and Dissertation.
- Structural Design III.
- Building Science I.
- Building Construction III.

4th Year:

- Architectural Design—advanced studies.
- Structural Design IV.
- Building Science II.
- Building Construction IV.
- Landscape Architecture I or Civic Design I or History and Philosophy of Art I.

5th Year:

Architectural Design—Design Dissertation.
Structural Design—advanced studies.
Building Science III.
Building Construction V.
Landscape Architecture II or Civic Design II or History and Philosophy of Art II.

Throughout the course practical work and visits to sites and buildings will be included.

2. Students will attend the class in Fine Art at the University during the first year of the curriculum and will attend such tutorials in Architecture as may be required by the Professor of Architecture; in no case will the Architecture tutorials be less than one hour per week. Separate classes in the other subjects of the first three years will not be held at the University so long as suitable classes exempting from these subjects are available at the Edinburgh College of Art. Students not matriculated in the University of Edinburgh who have attended these classes and wish to apply for exemption under Section IV of the Ordinance must submit evidence of marked architectural ability.

3. Candidates who have attended in an approved University or other institution classes in the following subjects: Drawing Techniques, History and Theory of Architecture, Architectural Design, Structural Design, Building Construction, and who have passed the appropriate examinations may, with the approval of the Senatus, be exempted from the first three years of the curriculum.

4. *Degree Examinations.* The first examination for the degree will be held at the end of the third year of the curriculum in the following subjects: History and Theory of Architecture, Architectural and Structural Design, Building Construction. Exemption from the first examination will be granted to candidates whose performance in the College of Art examinations is of sufficient merit to satisfy the University Examiners. A candidate may not present himself for the first examination on more than two occasions. Examinations in other subjects during the first three years will be held twice annually, namely, at the end of the respective courses of instruction, and in September. The final examination in the following subjects: Architectural Design, Structural Design, Building Science, Building Construction, Landscape Architecture or Civic Design or History and Philosophy of Art, will be held at the end of the fifth year of the curriculum.

5. A student failing to complete the examination for reasons beyond his control (for which written evidence must be produced) may be awarded the degree with Honours, or may be permitted, on the recommendation of the examiners to resit the examination.

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SYNOPSIS OF COURSES

Throughout the five years, lectures are closely related to studio work.
The curriculum for the first three years is as follows:

1st Year

COLLEGE OF ART.

This is an introductory and probationary year, in which the student is required to carry out a series of simple exercises designed to develop a correct approach to his subject. These exercises include studies of form, structure, colour and landscape. A high standard of draughtsmanship is expected and model making is taught.

Drawing Techniques I, including Measuring and Plotting; Sciography and Rendering, Perspective; Lettering.

History and Theory of Architecture I, including lectures on the general history of architecture up to the present day and an introduction to architectural theory.

Architectural Design I, including Design, Colour and Working Drawings.

Structural Design I, including Graphic Statics; Stress and Strain; Design of Simple Elements.

Building Construction I, including General Review of Materials; foundations, floors; walls; roofs.

Building Science I, including Basic and Applied Physics; Heat; Light, Sound, Electricity.

Life Drawing.

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Seminar at 2 p.m. on Mondays; study group project to be announced at the first class. In relation to this project there will be field work outings.

History of Fine Art—Lectures at 5 on Mon., Tues. and Thurs., and visits to galleries or special study on Wed. at 3 in autumn and spring terms; occasional tutorials and lectures in the summer term.

2nd Year

COLLEGE OF ART.

The student is required to make a general study of a small community and a detailed examination of a particular building in the form of drawings and models. Great attention is given to the design of detail, and elementary exercises in furniture design are carried out.

Drawing Techniques II, including Measuring and Sketching.

History and Theory of Architecture II.—A course of lectures dealing with the social and material background to architecture in the main historic periods, and suggesting how such factors influence contemporary architecture.

Architectural Design II, including Design, Colour and Working Drawings.

Structural Design II, including Elementary Theory of Structures, Design of steel frames.

Building Construction II, including foundations, brickwork, timber construction; plasterwork and rendering.

Building Science II, including Nature of Materials; Electricity; Water Supply; Drainage; Surveying.

Civic Design.

Life Drawing.

Courses of Instruction (B. Arch. and M. Arch.)

UNIVERSITY.

Seminar at 2 on Mondays; study group project to be announced at the first class.

3rd Year

COLLEGE OF ART.

The student is now called upon to design multi-storey buildings presenting more complex structural, service and landscape problems.

History of Architecture III.—A course of lectures on a selected period, at present the Italian Renaissance.

Architectural Design, including Design project and Dissertation.

Structural Design III.—Reinforced concrete design.

Building Construction III, including Site Works; cladding of framed buildings; wall finishes; comparative costs.

Building Science III, including Heating (solid fuel, electricity, gas), Lighting and illumination.

Life Drawing.

UNIVERSITY.

Seminar at 2 on Mondays; study group project to be announced at the first class.

At the end of the third year, the student will take the first degree examination.

4th and 5th Years

The remaining two years of the course are taken wholly at the University.

The subjects for these years, about which more detailed information will be given at a later date, are listed in the Regulations above. The main subjects, Architectural Design, Structural Design and Building Science will be treated as a continuous course through the two years, and the student will also take as a special course one of the following: Landscape Architecture, Civic Design, History and Philosophy of Architecture. The selection of one of these courses (each of which will be a two-year course) will be made by the student, subject to the approval of the Professor of Architecture.

At the end of the Fifth Year, the student will present a Design Dissertation and will take the final examination for the Honours degree.

Faculty of Arts

DEGREE OF BACHELOR OF EDUCATION, DIPLOMA IN EDUCATION AND CERTIFICATE IN EDUCATIONAL STUDIES

Regulations

General

The examination for the degree of Bachelor of Education is divided into two parts, viz.:—(1) a first (or diploma) examination taken at the end of the first year of study; and (2) a final (or degree) examination, taken at the end of the second year of study.

A University diploma in Education is awarded to candidates who successfully complete the course and pass the examinations necessary for the first (or diploma) stage of the curriculum laid down for the degree of Bachelor of Education.

Every candidate for the degree of Bachelor of Education, or for the Diploma, must be a graduate in Arts or Science of this or any Scottish University or have obtained a like degree (or university certificate recognised by the University Court as equivalent to a degree) in some other university approved for this purpose by the University Court on the recommendation of the Senatus.

Non-graduate students holding a Scottish Teacher's Certificate, or a Teacher's Certificate judged by the Board of Studies to be of equal standing, may enter for the University Certificate in Educational Studies, the courses for which are the same as those for the Diploma in Education.

The course of study for the degree of Bachelor of Education shall extend over not less than two academical years, and such years shall be in addition to the minimum number of years prescribed for a degree in Arts or in Science (Pure or Applied).

(1) First (or Diploma) Course and Examination

Before being allowed to enter for the first examination every candidate must produce evidence that he has attended a course of professional training at a recognised training centre or college, and that he has attained therein to a satisfactory standard of proficiency as a teacher; or, in lieu thereof, that he has taught with success for not less than three years in one or more schools or educational institutions approved for this purpose by the University Court after consultation with the Senatus. It is necessary that students whose mother tongue is not English should fulfil both of these conditions.

1. Candidates who enter for this examination must have attended the following University courses of study:—(a) The Diploma division of the First Ordinary course in Psychology; (b) the course in the Theory and History of Education; (c) the course in the Social Relations of Education; (d) the course in Experimental Education.

A candidate shall not be deemed to have attended a class as part of the curriculum for the first (or diploma) course who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

Candidates who have included the main First Ordinary course in Psychology in their curriculum for graduation in Arts (or Science) will not be exempted from taking course (a). Courses (c) and (d) must be taken by candidates in addition to their subjects for graduation in Arts or Science, *and not earlier than in their fourth year of university study*. Candidates who have already taken course (b) as a subject for the degree of Master of Arts will be required to take an additional Arts course not earlier than in their fourth year.

2. Candidates must be matriculated students in the year in which they present themselves for the examination, or for any part of the examination.

3. Candidates will not be entitled to receive the diploma unless they have already graduated in Arts or Science, or unless they are so graduating at the same time as they are qualified for the diploma.

(2) *Final Course and Examination for the Degree*¹

1. Candidates must have attended the courses for the first examination and must have attended the following courses of study, viz.: (e) Advanced Psychology; (f) Advanced Theory and History of Education; (g) Advanced Experimental Education; (h) Administration and Organisation of Primary and Secondary Schools. They must also have undertaken some further specialised work under one of these headings including the independent study of some particular problem approved by the Professors of Education and Psychology, and presented it in the form of a thesis. Candidates will also be set a three-hour paper on the particular subject they have chosen for specialisation.

All the above-named courses, unless in cases where (e) has been taken as a subject in the Honours Group of Mental Philosophy, *must be taken by candidates not earlier than in their fifth year of university study, must be in addition to their subjects for graduation in Arts or Science, and must be taken after graduating in Arts or Science.*

A candidate shall not be deemed to have attended a class as part of the curriculum for the final (or degree) course who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

2. The subjects for the final examination must be taken together, and not separately, and the standard of examination shall be, as nearly as possible, equivalent to that of a degree of Master of Arts with Honours in subjects of a corresponding character.

3. Distinction may be awarded to candidates who have displayed exceptional merit in Psychology, or Education, or both, in their examination.

4. For the degree of Bachelor of Education a certificate is granted, setting forth the subjects in which the candidate has been examined, and the distinction (if any) he has attained.

5. Candidates for examination or graduation must matriculate for the year.

6. Candidates may enter only once for the final examination.

¹ In addition to satisfying the other conditions, students must obtain the approval of the Professors of Education and of Psychology before being admitted to the course of study for the final examination. A student who has obtained a diploma in Education in any other university, under conditions that are, in the opinion of the Senatus, substantially equivalent to those prescribed, may be exempted by the Senatus from attendance on any or all of the courses required for the first (or diploma) part of the examination, and from passing the whole or any part of the first examination.

COURSES OF INSTRUCTION

First or Diploma Course

THEORY AND HISTORY OF EDUCATION¹

PROFESSOR PILLEY; Miss ADAMS and Mr. HAMILTON, Lecturers

Mon. and Tues. at 3.15 and Fri. at 9 throughout the session. Tutorial classes, obligatory for all students, are given on Thurs. at 3.15 and Fri. at 10. The main topics of discussion are: the nature of educational theory; its scientific, philosophical and poetic components; the individual in relation to society; some educational classics; the development of educational ideas and institutions in relation to recent social history; education and democracy; the scientific movement in education.

Books recommended:—Plato, *Republic*; Nettleship, *The Theory of Education in Plato's Republic*; Rousseau, *Emile*; Pestalozzi, *How Gertrude Teaches her Children*; Wordsworth, *The Prelude*; Matthew Arnold, *Culture and Anarchy*; Dewey, *School and Society*; Whitehead, *Aims of Education*; Livingstone, *Education and the Spirit of the Age*, *Education for a World Adrift*; Perry, *A Definition of the Humanities*; Isaacs, *The Children We Teach*; Mead, *Growing up in New Guinea*; Mannheim, *Diagnosis of Our Time*; Clarke, *Freedom in the Educative Society*; *Education and Social Change*; Macmurray, *The Boundaries of Science*; *Conditions of Freedom*; Niblett, *Education and the Modern Mind*; Collier, *The Social Purposes of Education*; Board of Education, *The Education of the Adolescent*; Report of the Advisory Council on Education in Scotland, *Secondary Education*.

PSYCHOLOGY¹

PROFESSOR DREYER; Mr. MAXWELL, Mr. McMAHON, Dr. SUTHERLAND, Dr. HUNTER and Dr. DONALDSON

Mon. at 10 and 4.15. Tues. at 9 and 4.15. Thurs. at 4.15 and Fri. at 2.

The course will not assume a knowledge of General Psychology, but students will be expected to read for themselves Kretch and Crutchfield, *Elements of Psychology*, if they have not already attended First Ordinary Psychology. Attention will be concentrated mainly on Developmental, Educational and Vocational Psychology.

Part of this class is run jointly with the course in Psychology for graduate students at Moray House.

Books recommended:—Cronbach, *Educational Psychology*; Baldwin, *Behaviour and Development in Childhood*; Werner, *Comparative Psychology of Mental Development*; Vernon, *The Structure of Human Abilities*; Super, *Appraising Vocational Fitness*.

EXPERIMENTAL EDUCATION

Dr. RENSHAW and Miss REID, Lecturers

Fri. at 11 during the autumn and spring terms.

This course will deal with three related topics:—

- (a) the place of experimental enquiry in education;
- (b) the use of measurement and qualitative assessment in education;
- (c) the definition, diagnosis and treatment of retardation in learning.

The lectures will be illustrated by demonstrations of the use of various kinds of test, and by the examination of examples of educational experimenting.

¹ Diploma candidates working for a Chapter V qualification under the plan whereby Training College work is compressed into two terms will be excused the course given in the third term and required to submit in lieu thereof an essay approved of by the Department.

Courses of Instruction (B.Ed.)

Books recommended :—L. M. Terman and M. A. Merrill, *Measuring Intelligence*; M. D. Vernon, *Backwardness in Reading*; Donald Durrell, *Improving Reading Instruction*; A. W. Heim, *The Appraisal of Intelligence*; F. J. Schonell, *Backwardness in the Basic Subjects*; Scottish Council for Research in Education, *Studies in Reading*, vols. i and ii, and *Studies in Arithmetic*, vols. i and ii; Lindquist, *A First Course in Statistics*; McIntosh, Walker and McKay, *The Scaling of Teachers' Marks and Estimates*.

SOCIAL RELATIONS OF EDUCATION

Miss BROWN and Mr. BURNS, Senior Lecturers; Miss BROWNE and Mr. CRAIG, Lecturers

Fri. at 12 throughout the session.

The aim of the course is to study social change in family and community life in relation to the child, and to give the student an understanding of normal and deviant behaviour at home and at school, and of the responses such behaviour elicits.

The following books are recommended:—A. K. C. Ottaway, *Education and Society*; T. H. Marshall, *Citizenship and Social Class*; Gist and Halbert, *Urban Society*; Guy Chapman, *Culture and Survival*; J. Bowlby, *Child Care and the Growth of Love*; Freud and Burlingham, *Infants without Families*; Scottish Advisory Council in Education, *Children who are Maladjusted because of Social Handicaps*; S. Isaacs, *Social Development in Young Children*; Report of the Committee on Maladjusted Children (Underwood Education Committee); L. Bovet, *Juvenile Delinquency (W.H.O.)*.

EXAMINATIONS FOR THE FIRST (OR DIPLOMA) COURSE

Psychology.

1. Two papers will be set, each of two hours' duration. All Diploma candidates will be required to take this examination whether or not they have already passed the graduating First Ordinary course in Psychology.

2. Candidates who fail in this part of the examination may retake it only once.

Education.

1. Four papers will be set, each of three hours' duration. The first paper will contain questions on the philosophical aspects of Education; the second on the historical and literary aspects; the third on the Social Relations of Education; and the fourth on Experimental Education.

2. Candidates who fail in this part of the examination may retake it only once.

Final or Degree Course

ADVANCED PSYCHOLOGY

PROFESSOR DREVER; Dr. COLLINS, Reader; Dr. SEMEONOFF, Senior Lecturer, Dr. HUNTER, Lecturer

Tues., Thurs. and Fri. at 9 a.m., with additional meetings for practical work. All students for the B.Ed. degree must take the Intermediate Honours courses on Perception, Child Psychology and Learning. Students who wish to specialise on the psychological side should take additional courses. Those who intend to go into child guidance work should attend the course on Techniques of Individual Assessment. Those intending to work in the youth employment field, or as careers masters, should take Educational and Vocational Psychology. Students may take both of these courses and other courses from the two Honours M.A. years, if the timetable permits.

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Books recommended:—Perception.—Koch, *Psychology*, vol. i; Boring, *Sensation and Perception in the History of Experimental Psychology*; Brunswick, *Perception and the Representative Design of Psychological Experiments*; Gibson, *The Perception of the Visual World*; Hebb, *The Organisation of Behaviour*; Koffka, *Principles of Gestalt Psychology*; Vernon, *A Further Study of Visual Perception*.

Child Psychology.—*Manual of Child Psychology* (2nd ed., ed. Carmichael); Barker, Kounin and Wright, *Child Behaviour and Development*; Burt, *The Sub-normal Mind*; Gesell, *The First Five Years of Life*; Isaacs, *Intellectual Growth in Young Children*; Burt, *The Young Delinquent*; Healy and Bronner, *New Light on Delinquency*; Bovet, *Juvenile Delinquency*; Bowlby, *44 Juvenile Thieves*; Maternal Care and Child Health; Fleming, *Adolescence*; Glueck and Glueck, *Unravelling Juvenile Delinquency*; Tregold, *Mental Deficiency*.

Learning.—McGeoch and Irion, *The Psychology of Human Learning*, Bartlett, *Remembering*; Bartlett, *Thinking*; Bruner, Goodnow and Austin, *A Study of Thinking*; McKellar, *Imagination and Thinking*; Osgood, *Method and Theory in Experimental Psychology*; Johnson, *The Psychology of Thought and Judgment*.

Techniques of Individual Assessment.—Kloper *et al.*, *Developments in the Rorschach Technique*; Bell, *Projective Techniques*; Rappaport, *Manual of Diagnostic Psychological Testing*; Murray, *Explorations in Personality*; Bellak, *The Thematic Apperception Test and the Children's Apperception Test in Clinical Use*; Harris, *The Group Approach to Leadership Testing*; Smeonoff and Trist, *Diagnostic Performance Tests*.

Educational and Vocational Psychology.—Allport, *Personality*; Vernon, *The Structures of Human Abilities, Personality Tests and Assessments*; Oldfield, *The Psychology of the Interview*; Ghiselli and Brown, *Personnel and Industrial Psychology*; McClelland, *Selection for Secondary Education*; Eysenck, *Dimensions of Personality or The Scientific Study of Personality*.

ADVANCED EDUCATION

PROFESSOR PILLEY; Miss ADAMS, Mr. HAMILTON
and Mr. WITHRINGTON, Lecturers

Tues. and Wed. at 11 and Mon. and Thurs. at 12 throughout the session. The class will be conducted as a reading and discussion circle to which members will from time to time present papers based upon their reading. The topics taken for discussion will be philosophical, historical and social and there will be a sustained reference to problems of the day. Amongst the books from which parts will be taken for intensive discussion will be: Plato, *The Republic, Meno, Phaedrus*; Burnett, *Aristotle on Education*; Ulich, *History of Educational Thought, Three Thousand Years of Educational Wisdom*; Newman, *The Idea of a University*; Arnold, *Culture and Anarchy*; Dewey, *Democracy and Education*; Kandel, *The End of an Era*; Thomson, *A Modern Philosophy of Education*; Whitehead, *Adventures in Ideas, Essays in Science and Philosophy*; Richards, *Interpretation in Teaching*; Jorman, *Landmarks in the History of Education*; W. O. L. Smith, *To Whom do Schools Belong?*; Saunders, *Scottish Democracy, 1815-1840*.

ADVANCED EXPERIMENTAL EDUCATION

Mr. PILLINER and Dr. RENSHAW, Lecturers

Mon., Thurs. and Fri. at 11 in autumn. The course aims at giving the student command of statistical techniques as applied in educational research. It has special regard for developments reported in recent publications. While concerned with the discussion of general educational problems of which the solution depends upon the use of statistical techniques, it places special emphasis on the principles of group testing.

A course conducted at the same hours in the spring term is devoted to a more advanced treatment of similar topics and is required only for those students who are specialising in Experimental Education.

In preparation for the course students are recommended to read:—E. G. Chambers, *Statistical Calculations for Beginners*.

For the general course the following books are recommended:—P. E. Vernon, *The Measurement of Abilities*; E. F. Lindquist, *Statistical Analysis in Educational Research*; G. H. Thomson, *The Factorial Analysis of Human Ability*; and C. Burt, *The Factors of the Mind*.

Those recommended for the more specialised course are:—L. L. Thurstone, *Multiple Factor Analysis*; P. E. Vernon, *The Structure of Human Abilities*; R. S. Fisher, *The Design of Experiments*; E. F. Lindquist (ed.), *Educational Measurement*.

ADMINISTRATION AND ORGANISATION OF PRIMARY AND SECONDARY SCHOOLS

Mr. MOWAT, Lecturer

Mon., Tues. and Fri. in summer, at an hour to be arranged. The course gives a brief history of the development of educational institutions in Scotland and from early times, but most emphasis is laid on the administration of education at the present day with special reference to current problems in this field. Most of the reading is from Acts of Parliament and from pamphlets issued by the Scottish Education Department. For the historical background students are recommended to read Alex. Morgan, *Rise and Progress of Scottish Education*.

EXAMINATIONS FOR THE FINAL (OR DEGREE) COURSE

Advanced Psychology.

Part of the work and reading prescribed for the courses in Advanced Psychology. There will be a practical examination of three hours, as well as two papers each of three hours, but there are no set books other than those recommended for reading in connection with the courses. Those who are specialising in Psychology will have a further three-hour examination.

Advanced Education.

An understanding of the conceptions of education expressed in the writings of some of the great educators of the past as also of those expressed in contemporary educational writings. The examinations will give candidates opportunity for showing the extent of their reading especially of the books recommended, as also of their grasp of the problems taken for intensive discussion in the class. Two papers will be set, each of three hours' duration. Those specialising in Advanced Education will have a further three-hour examination.

Advanced Experimental Education.

A general three-hour paper will be set to all candidates covering the class lectures and reading of the first term course. As part of this examination candidates will be asked to outline in some detail the method they would adopt in planning an experiment aimed at solving an educational problem set by the examiner. They will also be examined orally and in the computation of educational statistics.

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Those candidates specialising in Advanced Experimental Education will have a further three-hour examination based on the spring term course and will submit a written account of a special research undertaken during the year.

Administration and Organisation of Primary and Secondary Schools.

One paper of three hours' duration will be set on the class lectures and the reading prescribed from time to time. Candidates will be expected to understand the problems of present-day administration and organisation.

DEGREE OF BACHELOR OF COMMERCE

Regulations

Preliminary Qualifications and Admission to Classes

See Programme of Admission, pp. 3-9.

Course of Study and Qualifying Courses

I. The course of study for the degree in Commerce shall extend over not less than three academical years.

II. The curriculum of classes qualifying for the degree shall comprise the equivalent of not less than eight full courses, as set out below. Courses marked with an asterisk (*) are half-courses, and two of them count as the equivalent of one full course.

NOTE.—*The attention of students is particularly directed to the preliminary qualifications necessary for attendance at Accounting and Business Method, Modern Languages, Chemistry, Mathematics and Natural Philosophy classes (Programme of Admission, pp. 6-9). There are elementary classes in Accounting and Business Method, Italian, Russian and Spanish.*

Group A. The courses in this group shall be taken by all candidates.

Arts Courses:—Economic History;

Political Economy;

One modern language ¹ to be selected from those in which graduation courses are given.

Commerce Courses:—Accounting I;

* Mercantile Law I ²;

First Ordinary Organisation of Industry and Commerce.

Group B. One full course and one half-course, or three equivalent half-courses shall be taken by all candidates.

(a) Modern languages ¹:—a second modern language as defined above, or English;

(b) Sciences (in the Faculty of Arts):—Actuarial Science; Chemistry; Geography ³; Mathematics; Natural Philosophy;

(c) Other Courses:—

Arts Courses:—Psychology; * Elements of Statistics; * Public International Law; Economic Geography;

Commerce Courses:—* Banking; * Industrial Law; * Mercantile Law II.

¹ Students whose native language is other than English may take the course in English as a Foreign Language to satisfy this requirement, provided that they have the necessary entrance qualifications.

² It is recommended that Mercantile Law be taken before Accounting.

³ Special reading may be prescribed for students taking this course as qualifying for graduation in Commerce, and in the degree examinations certain questions may be set for B.Com. candidates as alternatives to some of those set for the M.A. degree.

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Group C. One full course from this group shall be taken by all candidates.

Arts Courses:—A second course in the modern language taken under Group A, *i.e.* Second Ordinary or Intermediate Honours courses in French, German, Italian, Russian or Spanish; Political Economy, Intermediate Honours Course¹; Intermediate Honours Economic History.

Commerce Courses:—Accounting II; *or* Second Ordinary Organisation of Industry and Commerce.

Admission of Students from other Universities

Applications for exemption under these provisions will be considered separately on their merits. They should be sent in, on forms which may be obtained from the Matriculation Office, as early as possible (preferably by 1st April preceding the applicant's admission).

1. A student, who has given attendance at classes recognised as qualifying for graduation in Commerce during one or more years in any one or more of the Scottish Universities, may complete his curriculum by giving attendance at classes in the University of Edinburgh, and may proceed to a degree; provided always that he attends qualifying courses in the University of Edinburgh during the whole of the last academical year of his curriculum.

2. The Senatus may accept attendance at other universities specially recognised by the University Court; provided that any student whose attendance or examinations are thus accepted shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examination of that University in the subjects studied therein.

3. The Senatus, with the approval of the University Court, may exempt from attendance on or examination in not more than three full courses of the curriculum or the equivalent thereof a candidate who produces satisfactory evidence that he has undergone sufficient training or examination outside the University in the subject or subjects of such courses.

Combined Degrees

The degree of B.Com. may be combined with the degree of M.A., B.Sc. or B.L.; provided always that not more than three full courses or their equivalent shall count as common to both degrees, and that the course of study for the combined degrees extends over not less than five academical years. For the combination of B.Com. with any two other degrees, *see* Index. The courses for each year for all combined degrees must be approved by the respective Directors of Studies.

COURSES OF INSTRUCTION

ACTUARIAL SCIENCE
CHEMISTRY
ECONOMIC GEOGRAPHY
ECONOMIC HISTORY
ELEMENTS OF STATISTICS
ENGLISH
FRENCH
GEOGRAPHY
GERMAN
HISPANIC STUDIES
ITALIAN
MATHEMATICS
NATURAL PHILOSOPHY
POLITICAL ECONOMY
PSYCHOLOGY
PUBLIC INTERNATIONAL LAW
RUSSIAN

¹ Except in special circumstances, attendance at the Intermediate Honours course in Political Economy will be confined to students who have obtained a merit certificate in Political Economy Ordinary Course.

ACCOUNTING AND BUSINESS METHOD

PROFESSOR ANDERSON; Mr. ROBERT TAYLOR, Mr. RITCHIE and
Mr. T. Z. KWIECINSKI

Elementary Course

Wed. and Fri. at 10 in autumn. This course, which is optional, and requires no previous knowledge of bookkeeping, is intended to provide students who must later take Accounting I with the requisite preliminary groundwork. All such students are strongly recommended to take this introductory class. An examination is held at the end of the course and the students attaining a satisfactory standard in it are allowed to attend Accounting I without passing the special entrance examination in Accounting (*see* Programme of Admission, p. 9). The subjects dealt with are:—The general theory of bookkeeping; preparation of manufacturing, trading, and profit and loss accounts, and of balance-sheets; the interpretation of published accounts.

Accounting I

Entrance qualification for this class:—A pass in the Elementary course examination or in an admission examination, or sufficient practical experience (*see* Programme of Admission, p. 9). Class hours:—Daily at 9 during the three terms. Students are recommended to take Mercantile Law before attending this course. The course will cover:—The general theory and practice of accounting; the form and contents of the accounts of all classes of undertaking and the information to be obtained therefrom; the principles of cost accounting; business statistics and budgeting; appreciation of published accounts; the general principles of United Kingdom taxation, its assessment, collection and application; the formation and amalgamation of companies; machine accounting and demonstrations of mechanical systems.

Class examination dates, *see* p. 472.

Accounting II

Daily at 9 during the three terms. This course is part of the prescribed training for Chartered Accountant students. It may also be taken as an optional class by Commerce students who have obtained a merit certificate in Accounting I, and by other persons on the production of evidence of a sufficient knowledge of accounting. The subjects dealt with will be:—Advanced bookkeeping; cost accounts; business statistics; auditing; investigations; taxation; estate duty; bankruptcy; liquidations; arbitrations, judicial references and remits; accounts and audit of municipal and local authorities and of public undertakings.

Class examination dates, *see* p. 472.

ORGANISATION OF INDUSTRY AND COMMERCE

PROFESSOR HUNT, Dr. BEHREND, Mr. HIRD and Mr. STALKER, Lecturers

First Ordinary Course

The aim of the course is to study the organisation and administration of modern industry and commerce, with the emphasis on the problems of the individual firm.

PART I.—Mon., Tues. and Fri. at 5 p.m. in the autumn and the first half of the spring term, with tutorials and visits to business undertakings, at such hours as may be arranged.

The course begins with an analysis of the factors determining the size and structure of industries and of their constituent firms. There follows a study of

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the limited company and its finance, including problems of capital structure, internal and external finance, and the rôle of the various financial institutions. The general problems of administration are studied, and the forms of internal organisation which have been devised to deal with them. An analysis is made of the several administrative functions and of the problems involved in buying, manufacturing and marketing in various market conditions, including a study of the channels of distribution.

Recommended books:—Robinson, *Structure of Competitive Industry*; Beacham, *Economics of Industrial Organisation*; Steindl, *Small and Big Business*; Allen, *British Industries and their Organisation*; Paish, *Business Finance*; Mooney, *Principles of Organisation*; Brech, *Management—its Nature and Significance*; Andrews, *Manufacturing Business*; Branton, *Administration of Business Enterprise*; Hall, *Distributive Trading*; Braithwaite and Dobbs, *Distribution of Consumable Goods*; and the reading specified in the lectures.

PART II.—Mon., Tues. and Fri. at 5 p.m. in the second half of the spring term and the summer term, with tutorials and visits to business undertakings, at such hours as may be arranged.

This part of the course is concerned with the study of employer-employee relations. It deals with worker behaviour, motivation and remuneration; the scope and functions of personnel management; the institutional framework of industrial relations, including trade unions, employers organisations and the rôle of the State. There are discussions of recent research and current problems, and some laboratory work in the use of special techniques such as work study and selection tests.

Recommended books:—Maier, *Psychology in Industry*; Mayo, *Human Problems of an Industrial Civilisation*; Pigors and Myers, *Personnel Administration*; Hunt, *Methods of Wage Payment in British Industry*; Flanders and Clegg, *The System of Industrial Relations in Great Britain*; Flanders, *Trade Unions*; Whyte, *Pattern for Industrial Peace*; Kornhauser, Dubin and Ross, *Industrial Conflict*; Moore, *Industrial Relations and the Social Order*; and the reading specified in the lectures.

Class examination dates, see p. 475.

DEGREE EXAMINATIONS

The subjects of examination for the degree are those dealt with in the lectures and the specified reading.

Second Ordinary Course

Mon., Wed. and Fri. at 10 a.m. during the three terms, with tutorials at such hours as may be arranged. Entrance qualifications for this class are a merit certificate in the First Ordinary class or other adequate proof of fitness for admission. The "case" method of study is followed where suitable, and investigations are undertaken in selected industries and business undertakings. The course is in three related parts, as follows:—

PART I.—Further consideration is given to the structure of industry and commerce, with the emphasis on current problems, such as those of growth and integration, monopoly and restrictive practices, trade associations, industrial location, research and development, and Government policy in relation to industry. A further study is made of the distributive trades and of the problems of transport, including the rôle of the State.

Recommended books:—Pigou, *Economics of Welfare* (Parts II-III); Lucas, *Industrial Reconstruction and the Control of Competition*; Reports of the Monopolies and Restrictive Practices Commission; Reports of the Board of Trade Working Parties; Burn, *The Structure of British Industry*; Adams, *Structure*

Courses of Instruction (B.Com.)

of *American Industry*; Yamey, *Economics of the Resale Price Maintenance*; Dean, *Managerial Economics*; Bonavia, *Economics of Transport*; Walker, *Road and Rail*; and the reading specified in the lectures.

PART II.—A study is made of current human problems in industry and the extent to which use can be made of the growing body of knowledge of human behaviour in the explanation and solution of problems of human relationships. A series of tutorial discussions and laboratory experiments is held on the applications of scientific methods in work situations.

Recommended books:—Roethlisberger and Dickson, *Management and the Worker*; Jaques, *The Changing Culture of a Factory*; Linton, *The Study of Man*; Tiffin, *Industrial Psychology*; Miller and Form, *Industrial Sociology*; Festinger and Katz, *Research Methods in the Behavioural Sciences*, and the reading specified in the lectures.

PART III.—A study is made of the development of the theories of administration, followed by an analysis of the administrative process. Case studies of actual business problems are discussed.

Recommended books:—Gulick and Urwick, *Papers on the Science of Administration*; Taylor, *Scientific Management*; Fayol, *General and Industrial Administration*; Follett, *Dynamic Administration*; Simon, *Administrative Behaviour*; Barnard, *Functions of the Executive*; Argyris, *Executive Leadership*; and the reading specified in the lectures.

Class examination dates, see p. 475.

DEGREE EXAMINATIONS

The subjects of examination are those dealt with in the lectures and the specified reading.

Jane Findlay Thomson Commercial Laboratory

Through the generosity of the late Mr. J. Albert Thomson there was founded in 1935 a Commercial Laboratory for the use of students taking the classes of Organisation of Industry and Commerce and Accounting and Business Method. Accounting, statistical and other equipment is available for research and practical work in these subjects.

MERCANTILE LAW

PROFESSOR MONTGOMERY

Two half-courses on Mon., Tues., Thurs. and Fri. at 4 in spring and summer respectively. Attendance at these courses qualifies for graduation in Commerce and Law. The lectures include:—The law merchant and the law maritime; the law of contract and agency in general; and the law of special contracts relating to mercantile affairs—sale and carriage of goods, charterparties and bills of lading, bills of exchange and cheques, partnership, bankruptcy, companies and insurance.

Text-book:—Lillie, *The Mercantile Law of Scotland* (5th ed., 1956).

DEGREE EXAMINATIONS

The examinations will be on the subjects dealt with in the lectures.

INDUSTRIAL LAW

MR. WYLIE

Daily at 4 in summer. [The lectures will include:—An historical introduction to the subject; the law of master and servant in outline; liability of employers for injuries to employees; National Insurance (Industrial Injuries) Acts; the

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law of trade unions and trade disputes; factory acts and kindred statutes; machinery for conciliation and for wage-fixing; and an account of international labour legislation.

Text-books:—Samuels, *Industrial Law*; Cooper, *Outlines of Industrial Law*.

Class examination date, see p. 474.

DEGREE EXAMINATIONS

The subjects of examination for the degree are the subjects dealt with in the class lectures.

BANKING

Mr. LOCKIE, Lecturer

Tues. and Thurs. at 5 in autumn and spring. The lectures will deal with the historical development of banking and with the principles and practice of the British banking system.

Prescribed text-books:—Taylor, *Banking in Scotland*; Manning Dacey, *The British Banking Mechanism*; *United Kingdom Financial Institutions* (H.M.S.O.).

Books recommended:—Saw, *The Bank of England*; Sayers, *Central Banking after Bagehot*; Sayers, *Modern Banking*; Windcr, *A Short History of Money*.

DEGREE EXAMINATIONS

The subjects of examination for the degree are the subjects dealt with in the lectures and the text-books.

DIPLOMAS AND CERTIFICATES IN THE DEPARTMENT OF SOCIAL STUDY

Regulations

Diploma in Social Study

1. Graduates with Honours in Mental Philosophy, Economic Science or History may qualify for the diploma by devoting one further year to Social Study and practical training. The curriculum for all such students must be adjusted in consultation with the Director of Studies.

2. Honours graduates in Geography who have taken Psychology or Political Economy and one of the following subjects— Economic History, Organisation of Industry, or Social Anthropology, during their degree course may qualify for the diploma by devoting one further year to Social Study and practical training.

3. Ordinary graduates in Arts who have included in their degree curriculum Political Economy, Economic History and two of the following subjects— Moral Philosophy, Logic and Metaphysics or Psychology, may qualify for the diploma by devoting one further year to Social Study and practical training.

4. Ordinary graduates in Arts who do not satisfy the conditions stated in 3 must, to qualify for the diploma, devote a period dependent upon the number of those subjects already taken, to the study of the other subjects of the curriculum.

5. Graduates in Commerce may be admitted as candidates for the diploma, provided that the subjects included in their curriculum are considered suitable by the Board of Studies in Social Study.

6. Graduates of other British Universities, or of approved universities outside Britain, may present themselves for the diploma. In such cases the course of post-graduate training shall be adjusted by the Director with reference to the previous studies of applicants.

7. All candidates for the diploma must be matriculated students (see Programme of Admission, p. 10).

8. All students taking the diploma must spend not less than one full year of work in the Department of Social Study, after completing the degree or degrees.

The curriculum, in addition to Economic History, Political Economy, and two of the following subjects, Moral Philosophy, Logic and Metaphysics, or Psychology, will include the following:—

A. Theoretical

1. The Social Services.
2. Social Theory.
3. Any three of the following courses;—
 - (i) Statistics.
 - (ii) Elementary Anatomy and Physiology.
 - (iii) Social Biology.
 - (iv) Organisation of Industry and Commerce, First Ordinary course, Part I or II.
 - (v) Industrial Law.
 - (vi) Administrative Law.
 - (vii) Political Science, half-course (spring and summer terms).

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- (viii) Psychology¹ special course (at times to be arranged).
- (ix) Social Anthropology ² (Intermediate Honours, Parts II and III).
- (x) Social Philosophy (autumn).
- 4. Discussion class (Miss Brown and lecturers).
- 5. Tutorial instruction by members of the staff of the Department (at times to be arranged).
- 6. Students must submit a thesis on a subject approved by the Director, and this thesis must have been accepted as satisfactory within two academic years of the commencement of the theoretical course of study. Exceptions to this can be made only in special circumstances with the approval of the Faculty.

B. Practical

1. The practical work required of all candidates consists of:—(a) work in social agencies approved by the Board of Studies in Social Study; (b) visits to public and private institutions to gain a general knowledge of existing facilities. Students are normally expected to undertake part-time practical work each term. In addition they are required to devote part of the vacation to full-time practical work in some area other than Edinburgh.
2. Students must satisfy the Board of Studies that they have attained an adequate standard in their practical work.

CERTIFICATE IN SOCIAL STUDY

1. Candidates must be at least nineteen years of age and preference is given to those who have some experience of earning their living. Before starting the course they must have obtained the Attestation of Fitness for admission to the University (see Programme of Admission, p. 3), or, if over the age of 23, must satisfy the Board of Studies that their education and experience render them suitable for admission. Candidates must matriculate each year (see Programme of Admission, p. 10).
2. The course will normally extend over two sessions. Students who are already graduates of an approved university, or who have had considerable previous training in the theoretical or practical subjects, may have their course shortened by not more than one session, with the approval of the Board of Studies.
3. Holders of the Certificate in Social Study who have the necessary entrance qualifications may become candidates for the degree of M.A. The combined Certificate and M.A. course can normally be completed in four years.

The curriculum is as follows:—

A. Theoretical

1. Elementary Economics.
2. *Either* Moral Philosophy (Ordinary course); *or* Psychology (First Ordinary course) *or*, in special circumstances only, Logic and Metaphysics or Education.
3. Economic History (First Ordinary course).
4. The Social Services.
5. Administrative Law *or*, for overseas students, Social Anthropology (First Ordinary course, autumn and spring).
6. Social Theory.
7. Any two of the following courses:—
 - (i) Elementary Anatomy and Physiology;
 - (ii) Social Biology;

¹ This option is open only to students who have already obtained a pass in the First Ordinary Psychology class.

² This option is open only to students who have already obtained a pass in the First Ordinary Social Anthropology class.

(iii) Industrial Law;

(iv) Organisation of Industry and Commerce, First Ordinary course, Part II.

8. Social Philosophy. Attendance at this class is optional.

9. Discussion class (conducted by Miss Brown and lecturers; at times to be arranged).

10. Tutorial instruction by members of the staff of the Department (at times to be arranged).

B. Practical (*see the diploma curriculum*)

CERTIFICATE IN PSYCHIATRIC SOCIAL WORK

The course will extend over not less than one academic year.

Candidates for the course will be admitted only when they have been recommended by a selection committee after interview. They must be over the age of twenty-two, and must hold a Social Study diploma or certificate, or a degree in Sociology supplemented by practical experience. Applications to be admitted must be in the hands of the Director of Studies not later than 31st March.

Candidates for the course who do not hold the diploma or certificate, or the degree specified above, but who have other approved educational qualifications and have had experience in some branch of social work, may be admitted on the recommendation of the selection committee to a two years' course of study, of which the first year will be devoted to practical work and to classes drawn from the curriculum for the certificate in Social Study, and the second year to the course detailed below. At the end of the two years those who have passed the necessary examinations and satisfied the requirements in regard to practical work will be awarded the certificate in Psychiatric Social Work.

The curriculum is as follows:—

(1) Social Case Work.

(2) Social Administration with special reference to Mental Deficiency and Lunacy Legislation, Child Care, Crime and Delinquency, Marriage and Divorce, Rehabilitation of the Disabled.

(3) Applied Psychology.

(4) Psychiatry, including Child Psychiatry and the study of Mental Deficiency.

(5) Physiology.

It is assumed that students will have already attended a full University class in Psychology when studying for the diploma or certificate in Social Study.

The examination will be both oral and written.

CERTIFICATE IN MEDICAL SOCIAL WORK

1. The course will extend over not less than one academic year. Candidates for the course will be admitted only when they have been recommended by a selection committee after interview. They must in all cases fulfil the following two conditions:—(a) Be over the age of twenty-one; (b) hold a Social Study degree, diploma or certificate or some other qualification accepted as the equivalent.

2. Candidates must have spent eight consecutive weeks on approved social case work before beginning the course; half of each week during the session will be devoted to practical training; and after completion of the theoretical work, two months must be devoted to supervised practical training on a full-time basis in an almoner's department. The practical work during the session will be undertaken under the supervision of an almoner in a hospital or clinic or public health department.

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3. The curriculum is as follows:—

- (1) The Field of Social Work.
- (2) Social Case Work.
- (3) Personal Relationships.
- (4) Introduction to Medicine.
- (5) The Social Function and Organisation of Medicine.

4. Every candidate will be examined both orally and in writing, and consideration will be given to the quality of case reports submitted by the candidate.

COURSES OF INSTRUCTION

(a) Diploma and Certificate in Social Study

THE SOCIAL SERVICES

Miss BROWN, Senior Lecturer; Dr. GREGOR, Lecturer

Mon. and Fri. at 3 p.m. throughout the session.

The course covers recent population trends and their repercussions on the social services; the changing incidence of poverty; the growth and development of statutory and voluntary social services, the relationship between them and the principles underlying their work; the history and practice of social casework and group work and community organisation; the social aspects of industry.

Books recommended:—Rowntree, *Poverty and Progress*; *Poverty and the Welfare State*; Ashton and Young, *Voluntary Social Work in the Nineteenth Century*; Mess, *Voluntary Social Services since 1918*; Beveridge, *Voluntary Action*; *The Beveridge Report*; Rooft, *Voluntary Societies and Social Policy*; Hall, *The Social Services of Modern England*; Titmuss, *Essays on the Welfare State*; Pearce, *Juvenile Delinquency*; Towle, *Common Human Needs*; Morris, *Social Casework in Great Britain*; Kuenstler, *Social Group Work in Great Britain*; Hamilton, *Theory and Practice of Social Casework*; and selected chapters from—Bourdillon, *Voluntary Social Services*; Ferguson and Fitzgerald, *Studies in the Social Services*; Mowat, *Britain between the Wars*; Miller and Form, *Industrial Sociology*.

Students are expected to study Government publications and legislation, and the relevant periodicals.

Class examination dates, see p. 475.

SOCIAL THEORY

(For students studying for the Post-Graduate Diploma)

Mr. RICHMOND and Mr. CRAIG, Lecturers

Two lectures and a discussion class each week in spring and summer.

1. The Nature of Social Theory:—The relation between Sociology and other Social Sciences; distinction between Social Science and Social Philosophy; problems of scientific method in Sociology. 2. Social Structure and Comparative Study of Social Institutions:—Marriage and family; community; social stratification; ethnic groupings; economic institutions; political institutions; religion; other aspects of social control. 3. Social Change and Adjustment:—Social development; technological, ideological and sociological factors in change; evolution and revolution; cultural lag and institutional behaviour; influence of group membership in behaviour and personality; adjustment and integration; effects of planning.

Books recommended:—**General:** Maclver and Page, *Society*; Rose (ed.), *Institutions of Advanced Societies*; Sprott, *Sociology, Social Psychology, Human Groups, and Science and Social Action*; **Specialised:** Bott, *Family and Social*

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Network; Chapman, *The Home and Social Status*; Cole, *Studies in Class Structure*; Floud, *Social Class and Educational Opportunity*; Glass, *Social Mobility*; Gorer, *Exploring English Character*; Liverpool University, *Neighbourhood and Community*; MacMurray, *Boundaries of Science*; MacGregor, *Divorce in England*; Madge, *Tools of Social Science*; Mays, *Growing up in a City*; Myrdal and Klein, *Women's Two Roles*; Richmond, *Colour Prejudice in Britain and The Colour Problem*; Slater and Woodside, *Patterns of Marriage*; Spinley, *Deprived and the Privileged*; Stott, *Human Nature and Delinquency*; Young and Wilmott, *Family and Kinship in East London*.

Class examination dates, see p. 475.

SOCIAL THEORY

(For Students studying for the Certificate)

Mr. RICHMOND and Mr. CRAIG, Lecturers

This course consists of that given above for students studying for the post-graduate diploma together with introductory lectures given during the autumn term.

ADMINISTRATIVE LAW

Mr. McLARTY and Dr. STOUT, Lecturers

Tues., Thurs. and Fri. at 4 p.m.

The course will deal on general lines with the following:— Historical development and present structure of local government in Scotland; the local authorities; town, county and district councils; composition and functions of committees; permanent officials and their relationship to local authorities; local authority committee system; the central authorities; Scottish Home Department and the central departments; the sheriff, bailies, justices of the peace; juvenile court; court procedure; diligence; evictions; debt recovery; probation, police; public health so far as relating to "personal" services; National Health Service; hospital, specialist and medical, etc. services; lunacy and mental deficiency; maternity and child welfare; health visiting and home nursing, etc.; infectious diseases; housing; town planning and environmental services; water; drainage; cleansing; lighting; National Assistance; children and young persons; education; elements of finance rating; budget and audit.

Tutorial instruction will be given in small groups throughout the course.

Book recommended:—*A Source Book and History of Administrative Law in Scotland*, by various authors.

ELEMENTARY ANATOMY AND PHYSIOLOGY

Dr. MATTHEWS, Lecturer

Tues. and Thurs. at 3 in autumn and the first half of the spring term.

SOCIAL BIOLOGY

Dr. C. GORDON, Senior Lecturer

Mon. and Wed. at 12 in autumn and spring.

The biology of population growth. The biology of reproduction. The biological causes and effects of a disparity between population number and the total available resources of the habitat. Biological measurements of the quality of a human population. Biological factors affecting the quality of a human population. Biological units of social life. A biological assessment of social institutions, customs and aims.

Books recommended:—The most recent *Annual Report of the Registrar-General for Scotland*; Crew, *Measurements of the Public Health*; Kitchin and Passmore, *The Scotsman's Food*; Barnett, *The Human Species*.

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(b) Certificate in Psychiatric Social Work

SOCIAL CASE WORK AND ADMINISTRATION

(1) Social Aspects of Mental Disorder

Mrs. SINCLAIR, Lecturer

The course will deal on general lines with the following:—the social history of the care of the mentally ill; the incidence of mental illness; lunacy and mental deficiency legislation; provisions for re-employment and rehabilitation of the disabled. Case work skills, the subject of discussion classes in the first two terms, form the subject of lectures in the third term.

(2) Social Development of the Child

Miss BROWNE, Lecturer

This course begins with a consideration of the normal emotional development of the child, and the conditions (family relationships, etc.) in which this development takes place. The second part of the course deals, from the point of view of the deprived child, with Child Care legislation, the various types of provision made for deprived children, and the extent to which this provision meets their needs. This leads in the third term to the consideration of juvenile delinquency and hence to questions of responsibility and psychological treatment of criminals.

PSYCHOLOGICAL MEDICINE

PROFESSOR KENNEDY; Dr. FISH, Senior Lecturer; and Lecturers

A general introductory course of lectures is supplemented by tutorial classes in which the relation of social work to psychiatric theory and practice is discussed. A short course of lectures on Psychological Treatment and lectures on Child Psychiatry are given during the summer term.

Syllabus of the introductory course: Ætiology of mental disorders, method of examination, symptomatology, psychopathology, anxiety states, hysteria, obsessional states, psychosomatic disorders and relations, affective states, schizophrenia, paranoid states, psychopathic states, organic reaction types, mental deficiency, treatment, legal aspects.

ANATOMY AND PHYSIOLOGY } Special classes in these subjects are arranged.
PSYCHOLOGY }

(c) Certificate in Medical Social Work

MEDICAL SOCIAL WORK

Miss LAUGHTON, Lecturer

1. *The Field of Social Work.*—The course deals with social work in relation to the medical setting; the differences between the medical and other settings; the generic basis of social work; history of social work and present trends; professional responsibilities to the community. It consists of discussion classes throughout the three terms.

2. *Social Case Work.*—The course relates the theory of social casework to case material. The discussion classes extend over the three terms.

Books recommended:—Harriet Bartlett, *Some Aspects of Social Casework in the Medical Setting*; John Bowlby, *Maternal Care and Mental Health*; Annette Garrett, *Interviewing*; Gordon Hamilton, *Theory and Practice of Social Casework* (revised 1951); Florence Hollis, *Social Casework in Practice, Six Case Studies*; Helen Perlman, *Social Casework*; Charlotte Towle, *Common Human Needs*.

PERSONAL RELATIONSHIPS

Miss MARGARET BROWNE, Lecturer

The course will consist of twenty lectures in the autumn and summer terms, when the following will be discussed:—Brief review of Developmental Psychology: environmental and mental protections against anxiety: personality differences: early recognition of psychiatric illness and indications for referral to the psychiatrist.

INTRODUCTION TO MEDICINE

Dr. DONALD CAMERON, Lecturer

The course will consist of forty lectures in the autumn and spring terms and will deal with the nomenclature and classification of disease, including also descriptions of the common diseases and the techniques used in diagnosis and treatment. The lectures will be supplemented by visits to hospitals arranged in conjunction with the Departments of Medicine, Surgery and Obstetrics and Gynæcology.

THE SOCIAL FUNCTION AND ORGANISATION OF MEDICINE

Dr. DONALD CAMERON, Lecturer

The course will consist of ten lectures in the spring term, and the following will be among the matters discussed:—*Medicine*: Definition, content, aims, methods. *Branches*: Preventive, curative (clinical), individual, group. *The Medical Profession*: Initial academic curriculum and qualifications. Registration. The G.M.C. *Its Divisions*: Consultant, specialist, general practitioner, administrator. Consultant and specialist. Academic qualifications required. Deeper and more prolonged study and experience. Specialisation by anatomical region: by special technique; by age group served. *Its Employment*: The medical services of central and local authority. The National Health Service. Hospitals and general practice. The Health Centre. Industry. The Armed Forces, etc. The distribution of doctors among the population.

Social Study Library

There is a library with reading-room accommodation in the Department of Social Study.

James Set's Memorial Lecture

A public lecture, instituted in memory of Professor James Seth, one of the founders of the Department of Social Study, is delivered every year by a distinguished visitor.

REGULATIONS FOR OTHER DIPLOMAS AND CERTIFICATES

DIPLOMA IN ACTUARIAL MATHEMATICS

1. The diploma shall be granted to persons who have previously been admitted as students of the Faculty of Actuaries in Scotland, and who have attended the courses, passed the examinations, and fulfilled the other conditions stated below.

2. Before entering on the curriculum each student shall be required to have such preliminary qualifications as are required of students who propose to study for a degree in the University, a pass on the higher standard in Mathematics being included.

3. The course of study for the diploma shall extend over not less than two academical years. Candidates must matriculate as students of the University in each year of study.

4A. All candidates must take courses, extending over not less than four terms, in the Mathematical Department of the University, in subjects comprised in the following schedule:—

Aids to calculation (use of tables of products, reciprocals, quarter-squares, logarithms, Gaussian logarithms, slide-rules, arithmometers).

Permutations and combinations. The binomial theorem. The progressions. Arithmetic-Geometric series. Summation by differences. Sums of like powers. Partial Fractions.

Co-ordinates; linear, circular, parabolic and elliptic graphs. Graphical interpolation. Transformation of co-ordinates. Degree of equations and of curves.

Solution of algebraic and transcendental equation by arithmetical and graphical methods. Solution of systems of linear equations; use and numerical computation of determinants.

Idea of a limit and of an infinite series. Evaluation of limiting forms. The exponential and logarithmic series. Elementary theory of convergence of series.

Theory of finite differences. Interpolation formulæ. Interpolation with unequal intervals. Interpolation in tables of double entry. Calculus of operations. Construction of mathematical tables, illustrated by construction of tables of logarithms, compound interest tables, etc. Subtabulation. Controls.

Differentiation: fundamental rules, differential coefficients of elementary functions. Determination of a differential coefficient from a difference table. Differentiation of implicit functions, successive differentiation, change of independent variable in differential coefficients, Leibniz's theorem, maxima and minima, curvature, points of inflexion.

Taylor's theorem. Series for the sine, cosine, etc. Method of undetermined coefficients for the determination of series. Formation of expansions by algebraic methods (reversion of series, etc.). The Bernoullian numbers.

Methods for the summation of slowly-converging series.

Partial and total differentiation. Differentiation of a function of functions. Change of variables in partial differential coefficients.

The integral as the limit of a sum. Integration as the converse of differentiation. Fundamental rules of integration. Integration of rational functions, irrational functions, and trigonometric functions. Integration by parts. Formulæ of reduction. Application of integral calculus to the determination of areas and centres of gravity. Simpson's and other approximate rules.

Definite integrals: the error-function and the gamma-function. Double integrals.

Mathematical theory of probability: curves of frequency.

Integration of simple difference-equations and differential equations.

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The Euler-Maclaurin formula and its application to the computation of sums and integrals. Other formulæ of summation and quadrature. Lubbock's and Woodhouse's formulæ.

4b. All candidates must take courses, delivered by a lecturer appointed by the Council of the Faculty of Actuaries and recognised by the University Court, extending over not less than two terms, in the subjects comprised in the following schedule:—Theory of interest and annuities-certain; the mortality table, probabilities of life and survivorship; elements of theory of life contingencies and formulæ of summation and interpolation, including application of the calculi to problems involving interest or mortality or both.

5. A candidate shall not be deemed to have attended a class as part of the curriculum who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

6. The University shall have power to recognise courses taken in other universities as qualifying for admission to the diploma examination.

7. There shall be one examination for the diploma in each year.

8. The examiners shall be three in number. One shall be the University teacher in the subjects specified in Section 4A above, the second shall be the recognised lecturer of the Faculty of Actuaries in the subjects specified in Section 4b above, and the third shall be an external examiner who shall be an actuary nominated by the Faculty of Actuaries and appointed by the University Court.

9. Candidates may present themselves for examination more than once.

10. A candidate after having received the diploma may proceed to a post-diploma course in the Theory of Curve-Fitting and Correlation, or to such other post-diploma courses in Actuarial Mathematics as may hereafter be instituted; and his performance in respect of such post-diploma courses shall be endorsed on his diploma.

11. The Senatus, with the approval of the University Court and of the Council of the Faculty of Actuaries, may make additions to or modifications in the above regulations, provided always that the University Court shall communicate to the General Council all such additions or modifications, other than alterations in the schedules of Sections 4A and 4b above; and any representation made thereon by the General Council, within two months from the date of such communication, shall be taken into account by the University Court before such additions or modifications be approved.

Students who propose to attend courses for the diploma should in the first place secure an Attestation of Fitness and apply for admission to the Faculty of Arts, as explained in the Programme of Admission (*see pp. 3-11*). They should communicate with Dr. Mott, Mathematical Institute, 16 Chambers Street, before the date of the first lecture (*see p. 286*). Thereafter they should make application to the Faculty of Actuaries, 23 St. Andrew Square, for admission as students of that Faculty, showing evidence of admission by the University (*see paragraph 1 of these regulations*).

DIPLOMA IN APPLIED LINGUISTICS

1. **ENTRANCE QUALIFICATIONS.**—Candidates must be graduates of this University or of another approved university, or persons possessing qualifications approved by the Senatus. In addition, candidates should have had at least three years' experience in the teaching of English as a second language, or in the teaching of other languages.

2. **RESIDENCE.**—Candidates shall attend the School of Applied Linguistics for at least one academic year in full-time study, and for not more than two years of study.

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3. COURSES AND EXAMINATIONS.—Candidates shall attend courses in the following subjects and must perform satisfactorily in the examinations or other tests prescribed:—

- (a) (i) General Linguistics and Phonetics.
 - (ii) Language and Literature in the teaching of English as a second language.
 - (iii) Psychology and Education with special reference to Language Learning.
 - (iv) Methodology and History of Language Teaching.
 - (b) A dissertation on a subject approved by the Director of the School.
4. FEES.—Matriculation, £2, 12s. 6d.; tuition and examination, £55.

DIPLOMA IN CLINICAL PSYCHOLOGY

The course extends over three academic years. Formal instruction on a part-time basis will be given during the first and second years, while throughout the course opportunities will be provided, through the Department of Psychological Medicine, for practical work relevant to the requirements of psychologists intending to work in mental health services. This work will be carried out under the supervision of senior clinical psychologists. In exceptional circumstances it may be possible for candidates to carry out the third year of training elsewhere than in the S.E. Scotland region, provided that approved supervision is available. Candidates approved for the course will be able to apply for honorary posts as trainee psychologists within the Professorial Units of the University Department of Psychological Medicine and the mental health services of the S.E. Scotland Regional Hospital Board. It is hoped that a limited number of paid posts will also be available. Appointments will be to a specified mental hospital or other psychological or psychiatric unit and temporary secondment to other centres will be made in order to provide the necessary varied experience.

ADMISSION.—Candidates for the course must possess a First- or Second-Class Honours degree in Psychology, or a qualification recognised as equivalent by the British Psychological Society. Candidates will be admitted following interview by a selection committee appointed by the University.

CURRICULUM.—During the first year lectures and demonstrations in the subjects listed below will be confined to two full days a week, and during the second year to one full day a week. The third year will be devoted entirely to supervised clinical work. At the end of the third year candidates will be required to submit case reports with commentaries based upon their clinical work during that year.

1st Year:

- 1. Psychological theory and assessment.
- 2. Social and industrial psychology, including vocational guidance and rehabilitation.
- 3. Child guidance.
- 4. Systematic psychiatry.
- 5. Social psychiatry.
- 6. (a) Elementary anatomy and physiology of the central nervous system;
(b) Introduction to the principles of neurology, neuro-surgery and neuro-psychiatry;
(c) Genetics.

2nd Year:

- 1. Psychological theory.
- 2. Statistical method and the design of experiments.
- 3. Problems of clinical research.

1st and 2nd Years:

1. Supervised practice in testing and assessment.
2. Case demonstrations and conferences.

Facilities will normally be available for study and practical experience in a general hospital, a mental hospital, a neurosis unit, a child guidance clinic, institutions for the mentally defective, a neurological unit, prison unit, etc.

EXAMINATIONS.—Candidates' progress in academic studies and proficiency in practical clinical work will be subject to periodic review. Written and oral examinations, covering the whole of the curriculum, together with a practical examination in clinical work will be held at the end of the second year of the course.

The diploma will be awarded to a successful candidate at the end of his third year of training. The award will be conditional on the candidate's having completed his probationary period to the satisfaction of his medical and psychological supervisors.

FEES.—Matriculation, £2, 12s. 6d. for each year of the course.

Tuition and examination £60, payable in two instalments of £30 over the first two years.

Applications should be in the hands of the Director of Studies, from whom further information may be obtained, not later than 31st May.

DIPLOMA IN ENGLISH STUDIES

1. **ENTRANCE QUALIFICATIONS.**—Candidates must be graduates of this University or of another approved university, or persons possessing qualifications approved by the Faculty of Arts.

2. **RESIDENCE.**—Candidates shall attend for one academic year of full-time study. In exceptional cases, and by permission of the Dean of the Faculty, they may be permitted to extend their studies over a period of not more than two years.

3. **COURSES AND TESTS.**—Candidates whose native language is English shall attend the following courses and must perform satisfactorily in the examinations or other tests prescribed:—

- (a) (i) The study and use of MS. sources.
- (ii) Bibliography, descriptive, historical and methodical.

Such of the following courses as may be prescribed in individual cases:—

- (iii) One of the Honours courses of the current year in English Literature.
- (iv) A course in English Language, as approved in individual cases by the Professor of English Language, or the Ordinary course in Phonetics, or a second Honours course in English Literature.

(b) An exercise in original research on a subject in Literature or Language approved by the Professor.

Notes.—Courses (a) (i) and (ii) will normally be covered in one term.

Course (a) (iii) may cover one term or two, as required.

Courses (a) (iii) and (a) (iv) will not normally be required of graduates with Honours in English Language and Literature of Edinburgh or other British Universities.

Candidates whose native language is other than English may be allowed to substitute the following course:—

- (a) (i) The Second Ordinary course in English Literature.
- (ii) Contemporary English Literature and Language.
- (iii) The Ordinary course in British History or English Language or Phonetics or one other approved Ordinary course in the Faculty of Arts.

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(b) An exercise in original research on a subject in Literature or Language approved by the Professor.

4. FEES.—Matriculation, £2, 12s. 6d.; tuition and examination £35.

Application for admission to the courses should be made at the Matriculation Office not later than 1st May.

DIPLOMA IN GENERAL LINGUISTICS

1. ENTRANCE QUALIFICATIONS.—Candidates must be graduates of this University or of another approved university, or persons possessing qualifications approved by the Faculty of Arts. An Honours degree in a language (or languages), or its equivalent, will normally be required.

2. RESIDENCE.—Candidates shall attend for at least one academic year of full-time study, and for not more than two academic years of study.

3. CURRICULUM.—Candidates shall carry out a piece of original research, to be embodied in a dissertation, on an approved subject; they will also attend classes and tutorials on linguistic theory in general and as related to the language (or languages) or problem with which they deal in their dissertation.

4. EXAMINATION.—The examination will consist of two parts, which may be taken together or in separate sessions:—

(i) The dissertation which must be completed and submitted by 15th May of the session in which it is presented. This dissertation may form the subject of a *viva voce* examination.

(ii) At the end of the third or sixth term an examination as follows:—

(a) One paper on the theory of General Linguistics.

(b) A paper on one of the following, the choice to be made after consultation with the Head of the Department:—

(1) Descriptive Linguistic methods applied to an approved language or languages.

(2) The Linguistic Analysis of a selected text or texts.

(3) Linguistic methods applied to an ethnographic or a sociological study.

(4) General Linguistic theory applied to an approved subject not covered above.

An oral test may be required.

Candidates who elect to postpone the written examination until the second year of study will not be permitted to present themselves for examination on more than one occasion.

5. FEES.—Matriculation, £2, 12s. 6d.; tuition and examination £35.

DIPLOMA IN GEOGRAPHY

1. ENTRANCE QUALIFICATIONS.—Candidates must be Honours graduates in Geography of this, or of some other approved, university, or possess such other qualifications as the Faculty of Arts may in individual circumstances approve.

2. RESIDENCE.—Candidates shall attend for at least one academical year of full-time study. No student shall remain a candidate for the diploma for more than two academical years.

3. CURRICULUM.—Each candidate shall carry out a piece of original research, to be embodied in a dissertation, on an approved topic. He will also be required to attend classes or tutorials in a subject, chosen from among the Special Subjects offered by the Department, for which he has not obtained credit in his undergraduate work.

4. EXAMINATION.—The examination will consist of two parts which may be taken in the same year or in successive years:

(i) The dissertation, which must be submitted by 15th May of the year in which it is presented,

Diplomas and Certificates

- (ii) An essay or written examination, at the discretion of the supervisor, on the Special Subject which the candidate has chosen. In addition, an oral test may be required.

5. FEES.—Matriculation £2, 12s. 6d.; tuition and examination £35.

DIPLOMA IN ISLAMIC STUDIES

1. ENTRANCE QUALIFICATIONS.—Candidates must be graduates of this University or of another approved university, or persons possessing qualifications approved by the Faculty of Arts. They must also possess sufficient knowledge of the language to be studied to enter the Intermediate Honours class in the case of Arabic, and the Ordinary class in the case of Persian, Turkish and Urdu.

2. RESIDENCE.—Candidates shall attend for three terms of full-time study. The three terms need not be in the same or consecutive years.

3. CURRICULUM.—Candidates shall attend the relevant courses or parts of courses. During the first two terms they will be required to write eight short essays on aspects of Islamic culture. These will be considered in awarding the diploma.

4. EXAMINATION.—There will be three papers:—

- (i) Qur'an: Arabic text as for the B.D. examination, together with questions on its composition and teaching.
- (ii) Language: unseen translation from and into Arabic *or* Persian *or* Turkish *or* Urdu (Arabic to be at Intermediate Honours standard, the others at Ordinary standard).
- (iii) Islamic Culture: covering the following topics:—

Arabia before Muhammad; Muhammad's life, prophetic mission, political achievements; Islam as a religion, including institutions, creed, theology; an outline of the history of the Caliphate to 1258; an outline of the history of the Near and Middle East (or of Islam in India and the Far East) since 1258; contemporary movements and trends of thought in Egypt, Turkey, Persia, Pakistan, etc.; and (optionally) an outline of the history of Muslim-Christian apologetics.

Instead of sitting the third paper candidates may submit a dissertation on an approved subject.

5. FEES.—Matriculation £2, 12s. 6d.; tuition and examination £35.

DIPLOMA IN PALÆOGRAPHY AND MANUSCRIPT STUDIES

1. ENTRANCE REQUIREMENTS.—All candidates must be graduates of this or an approved university or persons possessing qualifications approved by the Faculty of Arts.

2. DURATION OF COURSE.—The course shall extend over one academical year or (with the permission of the Dean) in exceptional cases over two years.

3. COURSES.—All candidates shall attend:

(1) A course on the general palæography of Western Latin and vernacular MSS. up to about 1700 (three lectures per week in first term and additional reading classes as required).

(2) A course in the employment of historical literary and other reference works and bibliographies (one hour per week in first term).

(3) *Either* a further course in a particular period of palæography with special reference to Manuscript Books, *or* a course in the diplomatic of a selected period, region or institution (three hours per week in second and third terms). In connection with this option, candidates may be advised to attend an Honours class in a Department of the Faculty of Arts.

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4. **EXAMINATION.**—The examination shall consist of *either* two papers in general palæography and the history of the manuscript book *or* one paper in general palæography and one paper on the option selected under (3) above. Candidates will also submit a dissertation on an approved subject (to be submitted before the commencing date of the written examination). Attendance at an oral examination may also be required.

5. **FEES.**—Matriculation £2, 12s. 6d.; tuition and examination £35.

DIPLOMA IN PHONETICS

1. **ENTRANCE QUALIFICATIONS.**—Candidates must be graduates of this University or of another approved university, or persons possessing qualifications approved by the Faculty of Arts. Candidates must have attended the Ordinary course of Phonetics or have produced equivalent evidence of proficiency in this subject.

2. **RESIDENCE.**—Candidates shall attend for at least one academic year in full-time study, and for not more than two academic years of study.

3. **CURRICULUM.**—Candidates shall carry out a piece of original research, to be embodied in a dissertation, on an approved subject; they will also attend classes and tutorials on Phonetic Theory and receive instruction in practical work in the laboratory.

4. **EXAMINATION.**—The examination will consist of two parts, which may be taken together or in successive sessions:—

- (i) The dissertation, which may form the subject of a *viva voce* examination.
- (ii) At the end of the third or sixth term an examination as follows:—

- (a) One paper on general Phonetic Theory; (b) One paper on the Phonetics of a specific language (which may be English) or dialect; (c) An oral test.

Candidates who elect to postpone the written examination until the second year of study will not be permitted to present themselves for examination on more than one occasion.

5. **FEES.**—Matriculation £2, 12s. 6d.; tuition and examination £35.

DIPLOMA IN SOCIAL ANTHROPOLOGY

1. **ENTRANCE QUALIFICATIONS.**—Candidates must be graduates of this University or of another approved university, or person possessing qualifications approved by the Faculty of Arts. All candidates must satisfy the Faculty that their previous studies and experience form a suitable preliminary training.

2. **RESIDENCE.**—Candidates shall attend for three consecutive terms of full-time study; but candidates who have spent at least two years overseas engaged in work which has brought them in contact with native life may, at the discretion of the Faculty of Arts, be admitted to attend the course during three terms which need not be consecutive.

3. **COURSES AND EXAMINATIONS.**—Candidates shall undergo examination in the undernoted four subjects and must obtain passes in all four subjects at one sitting. (The Senatus may in individual cases and for special reasons permit candidates to attempt the examination in two parts, each consisting of two subjects both of which must be passed at one sitting.)

The subjects of examination are as follows:—

- (i) Social structure, custom and law.
- (ii) Religious and magical beliefs and practices.
- (iii) Technology, art and economics of the non-literate peoples.
- (iv) Anthropological methods of field work.

Candidates may, at the discretion of the Faculty, substitute for any two of the above subjects a dissertation on an approved theme.

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The examiners may, in addition to the written examination, conduct an oral or practical examination in any subject if they deem it necessary.

4. **FEES.**—Matriculation £2, 12s. 6d.; tuition and examination £35.

CERTIFICATE IN PUBLIC ADMINISTRATION

1. (i) Candidates for the certificate must have obtained the Attestation of Fitness for Admission to the University, or must satisfy the Senatus that their previous education and experience qualify them to take advantage of the course. Candidates admitted under this alternative are subject to a year's probation.

(ii) With his application for admission to the course, each candidate must submit to the Senatus evidence that he has reached a standard of experience whereby he is likely to profit from the course.

(iii) The Senatus will consider each application submitted to them on its merits.

2. The subjects of instruction and examination are :—

(i) Administrative Law and Practice (three terms) (see Faculty of Law Programme).

(ii) Political Economy (three terms).

(iii) British Constitutional Law and the machinery of Government (three terms).

(iv) Organisation of Industry and Commerce (three terms).

(v) Accounting (one term) (see Faculty of Law Programme) or Statistics or Banking (one term).

3. The period of study shall not be less than two academic years.

4. Candidates for the certificate must matriculate for each year of study.

5. Candidates are required to attend the University lectures in the subjects prescribed and to perform the theoretical and practical work of each class attended.

6. A certificate of due performance of the class work will be issued to each candidate who is qualified to receive it in terms of the immediately preceding paragraph.

7. The possession by the candidate of such certificate of due performance is an essential condition of his admission to examination.

8. The examinations will take place twice in each academic year, in June and in September.

FEES.—Matriculation £2, 12s. 6d.; annual fee for tuition and examination £22, 10s.; re-examination fee £1, 10s. per subject.

Each course begins in October. Applications for admission should be addressed to the Secretary to the University, Old College.

UNIVERSITY OF EDINBURGH NURSING STUDIES UNIT

Regulations for Certificate Courses

1. *Certificate in Nursing Studies* (Advanced Nursing Education for Nurse Tutors).

2. *Certificate in Nursing Studies* (Advanced Nursing Administration for Nurse Administrators). (This is a one-year course.)

(1) (a) Candidates for the certificate must have obtained the Attestation of Fitness certificate before admission to the University (see Programme of Admission, p. 3), or must satisfy the Senatus that their previous education and experience qualify them to take advantage of the course. Candidates admitted under this alternative are subject to a year's probation.

(b) Candidates must produce evidence of elementary knowledge of general science (chemistry, physics and biology).

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(2) Candidates must be registered general nurses and satisfy the nursing regulations of their country for the particular course they wish to follow, and submit evidence. The Director must be satisfied that his or her experience has been adequate to justify advanced study.

(3) Graduates of this and other British universities and of approved universities outside Britain, who have the necessary nursing qualifications, may present themselves for the certificate courses. In such cases the post-graduate studies will be adjusted by the Director with reference to the previous studies of the applicant.

(4) The curriculum for each student will be prescribed by the Director of Studies who will have regard to the qualifications and experience of the student.

(5) The course will extend over two academical years.

(6) The fee will be £35 per annum.

(7) Candidates must matriculate each year (see p. 10).

(8) Candidates are required to attend the University lectures in the subjects prescribed, and to perform the theoretical and practical work of each class attended.

(9) No student can take the final examination in any subject without having obtained either a merit certificate or a certificate of attendance and due performance of the work of the class.

(10) The examination will be in two parts—Part I and Part II—and will take place in each academical year, in June and in September. No one who has failed in Part I shall be allowed to proceed to study for Part II without special permission of the Director of Studies. The examination will be both oral and written.

Every candidate will be required to submit a dissertation on one of a series of topics on nursing to be approved by the Director of Studies, and this must have been accepted as satisfactory within two academical years of the commencement of the theoretical course of study.

(11) The subjects of study shall include:—

Part I.—General Science, Anatomy, Physiology, Bacteriology, Public Health and Social Medicine and Nursing, Clinical Therapeutics, Nursing Practice and Education, Teaching Principles and Methods, one elective subject.

Part II.—Theory and History of Education, Educational Psychology, Nursing Developments, Education and Administration, one elective subject.

The elective subjects will be chosen in consultation with the Director of Studies.

In the case of the course in Nurse Administration, the course will be that of the Diploma in Medical Services Administration (see Faculty of Medicine Programme).

Every candidate shall be required to undertake practical work which will consist of:—

(i) Visits to hospitals and other agencies where teaching is in progress.

(ii) A practical period of teaching and observation, or of administration in selected institutions.

N.B.—Students are recommended to carry out independent study of Nursing Education or Administration in other than their own areas for at least a four-week period.

(12) Students in special circumstances may be accepted for part of the course.

Examinations

The examination shall be in two parts.

Part I—

Physiology with Anatomy	} one paper of three hours and oral examination
Infection	
Public Health	

Part II—

Theory and practice of education	} See Timetable.
Psychology	
Elective subject	

No one who has failed to satisfy the examiners in Part I shall be allowed to proceed to Part II, without special permission of the Board of Studies.
A second diet of examination shall be held in September of each year.

Courses of Instruction

PUBLIC HEALTH AND SOCIAL MEDICINE

Dr. DOUGLAS, Reader; Dr. C. GORDON, Senior Lecturer

The course will consist of 35 hours during the autumn and spring terms, and will deal with the following:—Introduction; history of Public Health and Medical Services; the National Health Service; the Mental Health Service; the Industrial Health Services; International Health Services; the family in health and disease; environment and health; the influence of heredity on health; the struggle against epidemic disease; vital arithmetic; diseases of special social importance; the hospital as a community service.

INFECTION

PROFESSOR R. CRUICKSHANK; and Dr. NINA TULLOCH, Lecturer

The course will consist of 30 hours during the autumn and spring terms and will deal with the following:—General considerations of the study of micro-organisms, physiology, microscopy, artificial culture. Principles of infection and immunity, modes of dissemination and results of infection, prevention and control of spread of infection. Brief survey of micro-organisms found in various systems of the body in health and disease, with special reference to recent advances in diagnosis, prophylactic immunisation and therapy of the more common infections.

GENERAL SCIENCE

Dr. T. RENSHAW, Lecturer

The course will consist of 40 hours of tutorial instruction, the central purpose of which will be to study the general question of what it is that distinguishes the scientific mode of thinking from other modes of thinking and to single out for discussion those scientific principles and methods of investigation which find application in biological medicine and hospital practice.

In addition to the tutorial instruction there will be fifteen two-hour periods of practical investigation conducted by Miss S. S. Ross.

Recommended books:—Flitter, *An Introduction to Physics in Nursing*; Goostray and Schwenck, *A Textbook of Chemistry*; Bernard, *Experimental Medicine*; Butterfield, *Origins of Modern Science*; Conant, *On Understanding Science*; Wightman, *Growth of Scientific Ideas*; Nokes, *Science in Education*; Dale, *Introduction to Social Biology*; Raven, *Science and the Christian Man*; Barnett, *The Human Species*; Burr, *The Insect Legion*; K. M. Smith, *Mumps, Measles and Mosaics*; Abercrombie and others, *A Dictionary of Biology*; Buchsbaum, *Animals without Backbones*; Romer, *Man and the Vertebrates*; P. D. F. Murray, *Biology*; Grove and Newell, *Animal Biology*.

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ANATOMY AND PHYSIOLOGY

Dr. J. D. MATTHEWS, Mr. I. KIRKLAND and Miss K. J. W. WILSON, Lecturers;
Dr. A. P. MEIKLEJOHN, Lecturer in Physiology and Nutrition

The course will consist of 68 lectures (8 on Physiology of Nutrition) and is designed for Nurse Tutor students who have already studied anatomy and physiology. It deals with the following:—Bones; Muscles; Joints; Neurology; Eyes; Urinary system; Body fluids; Cells and metabolism; Blood; Cardiovascular system; Respiration; Skin and temperature regulation; Digestion; Endocrinology; Reproduction.

Books recommended:—Esther Greisheimer, *Physiology and Anatomy*; Gray's *Anatomy and Physiology*; Best and Taylor, *The Living Body*.

NURSING EDUCATION

DIRECTOR OF THE UNIT and Miss K. J. W. WILSON

Nursing Education, History and Teaching Practice will be continuous throughout each term for three hours weekly, and will comprise the following:—

Nursing Education I

This course is designed to deal briefly with the historical background of nursing: goes on to consider the nurse as a practitioner, an administrator and a teacher: is completed by discussions of current practice.

Recommended books:—Lucy Seymer, *History of Nursing*; Harmer and Henderson, *Principles and Practice of Nursing*; General Nursing Council for Scotland, *The Syllabus*; *Guide to the Syllabus*; *Practical Record*.

Nursing Education II

This course is designed to trace the historical development of professional nursing education from Florence Nightingale to the present day. It will also include the administration of a hospital teaching department. The students must supplement the lectures and discussions by reading for themselves in both of these fields.

Recommended books:—Florence Nightingale, *Notes on Nursing*; Margaret Bridgman, *Collegiate Education in Nursing*; Esther Lucille Brown, *The Future of Nursing*; World Health Organisation, *Technical Reports*.

The Nursing and Health Requirements of the Family

A study of the requirements of the family and community for health and nursing care with background principles and practice.

Nursing History and Developments

This course will deal with the historical development of nursing, and full consideration will be given to the National Health Service as well as to nursing in other countries and to organisation.

Recommended books:—Bailey and Bishop, *Notable Names in Medicine and Surgery*; A. L. Banks, *Social Aspects of Disease*; Ferguson and MacPhail, *Hospital and Community*; V. M. Frazer, *A History of English Public Health*; E. M. Jamieson and M. Sewall, *Trends in Nursing History*; E. L. Koos, *The Sociology of the Patient*; Agnes E. Pavey, *The Story of the growth of Nursing*; Reinhardt and Meadows, *Society and the Nursing Profession*; J. S. Ross, *The National Health Service in Great Britain*; G. Trevelyan, *English Social History*;

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Chaucer to Queen Victoria; C. Woodham-Smith, *Florence Nightingale*; L. R. Seymer, *A General History of Nursing*; M. McEwan, *Health Visiting*; Jas. Spence and others, *A Thousand Families in Newcastle-upon-Tyne*.

DEMONSTRATIONS IN PHYSIOLOGY, CLINICAL THERAPEUTICS, CLINICAL CHEMISTRY AND BIOLOGY

Special arrangements are made with the Heads of the various Departments for Nurse Tutors to attend the above demonstration classes.

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TIMETABLES OF EXAMINATIONS

I. Class Examinations

Where class examination dates do not appear in the schedule, class examinations will normally be held during lecture hours. Details will be announced in Departments.

<i>Subject</i>	<i>Autumn</i>		<i>Spring</i>		<i>Summer</i>	
Accounting:	<i>Dec.</i>		<i>Mar.</i>		<i>June</i>	
Accounting I . . .	14	9-12	14	9-12	3	9-12
Accounting II . . .	17	2-5	14	9-12	3	9-12
Ancient History:						
Ordinary	16	1.15-3.15	16	1.15-3.15	8	1.15-3.15
Arabic:						
Elementary	17	1.15-3.15	17	1.15-3.15		
Ordinary	18	10-12	18	10-12		
Astronomy	18	9-12	18	9-12		
Banking	17	5-6.30	<i>Feb.</i> 25	5-6.30		
Biblical Studies:			<i>Mar.</i>			
1st Ordinary	18	3.45-5.45	18	3.45-5.45		
Botany:						
1st Ordinary 1A . . .	15	2-5	15	2-5		
1st Ordinary 1B . . .	18	2-5	18	2-5		
2nd Ordinary	16	9-12	16	9-12		
	18	9-12 ¹	18	9-12 ¹		
British History:						
Ordinary	15	10-12	15	10-12		
Chemistry:						
1st Ordinary	14	9-11	14	9-11		
2nd Ordinary	16	2-4.30	16	2-4.30		
Economic Geography:						
1st Ordinary	16	1.15-3.15	16	1.15-3.15		
Economic History:						
1st Ordinary	17	10-12	17	10-12		
English:						
1st Ordinary	16	9.30-12	16	9.30-12		
2nd Ordinary	16	9.30-12	16	9.30-12		
Honours	16	9.30-12	16	9.30-12		

¹ Practical.

Timetable of Class Examinations

Timetable of Class Examinations—(continued)

<i>Subject</i>	<i>Autumn</i>		<i>Spring</i>		<i>Summer</i>
English Language:	<i>Dec.</i>		<i>Mar.</i>		
Ordinary	14	1.15-3.15	14	1.15-3.15	
Intermediate Honours	15	9-12			
European History:					
Ordinary	14	9-11	14	9-11	
Fine Art:					
Ordinary			16	3.45-5.45	
Intermediate Honours			15	9-12	
French I:					
Prose and Essay	14	3.45-5.45	18	9.30-11.30	
Dictation and Translation	18	9.30-11.30	10	3.45-5.45	
B and C Language			11	3.45-5.45	
C Special			15	1.15-3.15	
Literature			14	3.45-5.45	
French II and Intermediate Honours:					
Prose and Essay	14	3.45-5.45	18	9.30-11.30	
Translation	18	9.30-11	10	4.15-5.45	
Literature			14	3.45-5.45	
French Intermediate Honours:					
B Special			12	9.30-12.30	
Language			11	3.45-5.45	
French Final Honours:					
Essay	16	9.30-12.30	14	9.30-12.30	
Prose	15	9.30-12.30	16	9.30-12.30	
Translation	14	9.30-12.30	18	9.30-12.30	
B Special			10	9.30-11	
Literature			17	9.30-12.30	
Geography:					
1st Ordinary	14	1.15-3.15	14	1.15-3.15	
2nd Ordinary	16	9-12	16	9-12	
Geology:					
1st Ordinary	14	1.30-3	14	1.30-3	
German:					
1st Ordinary	17	9-11	17	9-11	
2nd Ordinary and Intermediate Honours	17	9-11	17	9-11	

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Timetable of Class Examinations—(continued)

<i>Subject</i>		<i>Autumn</i>		<i>Spring</i>		<i>Summer</i>	
Greek:		<i>Dec.</i>		<i>Mar.</i>			
Ordinary	.	15	9-12	15	9-12		
Intermediate Honours	.	16	9-12	16	9-12		
Honours	.	15	9-12	15	9-12		
Imperial and American History		17	10-12	17	10-12		
Industrial Law	.					<i>June</i>	
						10	4-5
Islamic History	.	18	3.45-5.45	18	3.45-5.45		
Italian:							
Elementary	.	18	3.45-5.45	18	3.45-5.45	8	10-12
						9	2-4
Ordinary	.	17	10-12	17	10-12		
2nd Ordinary and Intermediate Honours	.	16	1.15-3.15	16	1.15-3.15		
Latin:						<i>May</i>	
1st Ordinary	.	12	10-1	12	10-1	14	10-12
2nd Ordinary	.	12	10-1	12	10-1	14	10-12
Intermediate Honours	.	12	10-1	<i>Jan.</i>			
				12	11-12		
				<i>Mar.</i>			
				12	10-1		
Honours	.	12	10-1	12	10-1		
Logic and Metaphysics:							
1st Ordinary	.	15	3.45-5.45	15	3.45-5.45		
2nd Ordinary	.	16	1.15-3.15	16	1.15-3.15		
Mathematical Physics:							
Ordinary	.	15	3.45-5.45	15	3.45-5.45		
Intermediate Honours	.	16	9-12	16	9-12		
Mathematics:							
1st Ordinary	.	14	9.30-12	14	9.30-12		
2nd Ordinary	.	16	9.30-12	16	9.30-12		
Intermediate Honours	.	15	9-12	15	9-12		
Meteorology	.	17	1.15-3.15	17	1.15-3.15	<i>June</i>	
						8	9-11
Moral Philosophy	.	15	1.15-3.15	15	1.15-3.15		
Natural Philosophy:							
1st and 2nd Ordinary	.	17	1.15-3.15	17	1.15-3.15		
Intermediate Honours	.	14	9-12	14	9-11		

Timetable of Class Examinations

Timetable of Class Examinations—(continued)

<i>Subject</i>	<i>Autumn</i>		<i>Spring</i>		<i>Summer</i>	
Organisation of Industry and Commerce:						
1st Ordinary . . .			<i>Feb.</i> 5 4-6		<i>June</i> 3 9-12	
2nd Ordinary . . .			5 10-12		3 9-12	
Phonetics:	<i>Dec.</i>		<i>Mar.</i>			
Written	17	3.45-5.45	17	3.45-5.45		
Oral	15	9-12	15	9-12		
Political Economy:						
1st Ordinary . . .	14	1.15-3.15	14	1.15-3.15		
Intermediate Honours . . .	15	3.45-5.45	15	3.45-5.45		
Political Science . . .	16	1.15-3.15	16	1.15-3.15		
Prehistoric Archæology . . .	16	3.45-5.45				
Psychology						
1st Ordinary . . .	17	3.45-5.45	17	3.45-5.45		
2nd Ordinary . . .	17	3.45-5.45	17	3.45-5.45		
Scottish History:						
1st Ordinary . . .	17	1.15-3.15	17	1.15-3.15		
2nd Ordinary . . .	18	10-12	18	10-12		
Social Anthropology:						
1st Ordinary . . .	11	4-6	11	4-6		
Intermediate . . .	11	4-6	11	4-6		
Social Philosophy . . .	15	3.45-5.45	15	3.45-5.45		
Social Study:						
Social Services . . .	18	9.30-12	18	9.30-12		
Social Theory . . .	15	9-11	15	9-11		
Spanish:						
Elementary	18	4-5	18	4-5		
1st Ordinary . . .	17	3.45-4.45	17	3.45-4.45		
2nd Ordinary and Inter- mediate Honours	16	2.15-3.15	16	2.15-3.15		
Statistics (Elements of) . . .					2 2-4	
Technical Mathematics:						
1st Ordinary . . .	15	9-12	15	9-12	7 9-12	
2nd Ordinary . . .	14	2-5	14	2-5	6 2-5	

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II. Degree Examinations

(A) M.A. ORDINARY AND INTERMEDIATE HONOURS DEGREE EXAMINATIONS

<i>Subject</i>			<i>June</i>		<i>Sept.</i>	
Ancient History	. . .	W. 15 Th. 16	10-12 1.15-3.15		Th. 22 F. 23	10-12 2-4
Arabic	. . .	W. 8 Th. 9 Tu. 14	3.45-5.45 3.45-5.45 10-12		M. 19 M. 19 W. 21	1.15-3.15 3.45-5.45 1.15-3.15
Astronomy	. . .	Tu. 14 Tu. 14 ¹	9-12 2-5		M. 19 W. 21 ¹	2-5 2-5
Biblical Studies:						
1st and 2nd Ordinary	. . .	Tu. 14 F. 17	4-6 4-6		M. 26 Tu. 27	4-6 4-6
Botany:						
1st Ordinary	. . .	M. 20	2-5		M. 26	9-12
2nd Ordinary	. . .	W. 15 W. 15	9-12 2-5		F. 23 F. 23	9-12 2-5
British History	. . .	W. 8 Th. 9	1.15-3.15 1.15-3.15		M. 19 Tu. 20	10-12 10-12
Celtic:						
1st and 2nd Ordinary	. . .	M. 20 Tu. 21 Tu. 21	9-12 9-12 2-5		W. 28 W. 28 Th. 29	9-12 2-5 9-12
Intermediate Honours	. . .	M. 20 M. 20 Tu. 21 Tu. 21	9-12 2-5 9-12 2-5			
Chemistry:						
1st Ordinary	. . .	F. 10 M. 13 ²	10-12 2-4.30		Tu. 20 F. 23 ²	3.45-5.45 10-12.30
2nd Ordinary	. . .	Th. 16 F. 17	2-4.30 2-4.30		W. 28 W. 28	9.30-12 2-4.30
Civil Law	. . .	Th. 23 Th. 23	10-12 1.15-3.15		F. 30 F. 30	10-12 1.15-3.15
Comparative Constitutions		Tu. 14 Tu. 14	10-12 1.15-3.15		M. 19 W. 21	1.15-3.15 1.15-3.15
Constitutional Law	. . .	F. 17 Tu. 21	3.45-5.45 3.45-5.45		W. 28 W. 28	10-12 1.15-3.15
Ecclesiastical History	. . .					
			<i>Mar.</i>			
		Tu. 22 Tu. 22	9-11 2-4		Th. 29 Th. 29	10-12 1.15-3.15

¹ At the Royal Observatory.

² Practical.

Timetable of Degree Examinations

Timetable of Degree Examinations—(continued)

<i>Subject</i>				<i>June</i>		<i>Sept.</i>	
Economic Geography	.	W.	15	1.15-3.15	Th.	22	10-12
		Th.	16	1.15-3.15	F.	23	2-4
Economic History:							
1st Ordinary	.	F.	17	1.15-3.15	M.	26	10-12
		M.	20	1.15-3.15	Tu.	27	1.15-3.15
2nd Ordinary	.	W.	8	3.45-5.45	M.	19	1.15-3.15
		Th.	9	3.45-5.45	W.	21	1.15-3.15
Education	.	F.	10	1.15-3.15	W.	21	10-12
		M.	13	1.15-3.15	F.	23	10-12
English:							
1st and 2nd Ordinary	.	W.	15	1.15-3.15	Th.	22	10-12
		Th.	16	1.15-3.15	F.	23	2-4
English as a Foreign Language:							
Language	.	W.	1	2-4.30	W.	28	9.30-12
Literature	.	Th.	2	2-4.30	W.	28	2-4.30
English Language:	.						
Ordinary	.	F.	10	10-12	W.	21	10-12
		M.	13	10-12	F.	23	10-12
Intermediate Honours	.	W.	8	9-12	M.	19	9-12
		Th.	9	9-12	Tu.	20	9-12
European History	.	F.	10	10-12	W.	21	10-12
		M.	13	10-12	F.	23	10-12
Fine Art:							
Ordinary	.	Tu.	14	3.45-5.45	M.	26	3.45-5.45
		F.	17	3.45-5.45	Tu.	27	3.45-5.45
Intermediate Honours	.	W.	8	9-12	M.	19	9-12
		Th.	9	9-12	Tu.	20	9-12
French:							
1st Ordinary—							
Prose and Essay	.	W.	8	3.45-5.45	F.	16	10-12
Literature	.	Th.	9	3.45-5.45	F.	16	2-4
Dictation and Translation	Tu.	14	9-11.30	M.	19	2-4.30	
2nd Ordinary—							
Prose and Essay	.	W.	8	3.45-5.45	F.	16	10-12
Literature	.	Th.	9	3.45-5.45	F.	16	2-4
Translation	.	Tu.	14	9-11	M.	19	3.45-5.45
Intermediate Honours—							
I. Prose and Essay	.	W.	8	3.45-5.45	F.	16	10-12
II. Translation	.	Tu.	14	9-11	M.	19	3.45-5.45
III. Literature	.	Th.	9	3.45-5.45	F.	16	2-4
IV. History of Language	Tu.	14	1.15-3.15	W.	21	3.45-5.45	
V. Special Paper.	.	W.	15 ¹	9-12	Th.	22 ¹	9-12

¹ B Course only.

Faculty of Arts

Timetable of Degree Examinations—(continued)

<i>Subject</i>			<i>June</i>			<i>Sept.</i>		
Geography:								
1st Ordinary	.	.	F.	10	9-12	W.	21	9-12
			M.	13	9-12	F.	23	9-12
2nd Ordinary	.	.	W.	15	9-12	Th.	22	9-12
			Th.	16	9-12	F.	23	2-5
Geology:								
1st Ordinary	.	.	F.	10	2-5	M.	26	2-5
2nd Ordinary	.	.	F.	10	2-5	Tu.	20	9-12
			M.	13	9-12	W.	21	9-12
German:								
1st and 2nd Ordinary	.		F.	17	9-12	M.	26	10-12
			M.	20	1.15-3.15	Tu.	27	9-12
			M.	20	3.45-5.45	Tu.	27	1.15-3.15
Intermediate Honours	.		F.	17	9-12	M.	26	10-12
			F.	17	1.15-3.15	M.	26	1.15-3.15
			M.	20	1.15-3.15	Tu.	27	9-12
			M.	20	3.45-5.45	Tu.	27	1.15-3.15
Greek:								
Ordinary	.	.	W.	8	9-12	M.	19	9-12
			Th.	9	10-12	Tu.	20	10-12
			Th.	9	1.15-3.15	Tu.	20	1.15-3.15
Intermediate Honours—								
Prose	.	.	F.	3	9-12			
Translation	.	.	F.	3	2-4			
Unseen	.	.	M.	6	2-5			
Commentary	.	.	Tu.	7	9-12			
Hebrew:								
1st Ordinary	.	.	F.	10	10-12	W.	21	10-12
			F.	10	1.15-3.15	F.	23	10-12
			M.	13	10-12	M.	26	1.15-3.15
2nd Ordinary and Inter- mediate Honours			F.	10	10-12	W.	21	10-12
			F.	10	1.15-3.15	F.	23	10-12
			M.	13	10-12	M.	26	1.15-3.15
			M.	13	1.15-3.15	M.	26	3.45-5.45
Imperial and American History			F.	17	10-12	M.	26	10-12
			M.	20	3.45-5.45	Tu.	27	1.15-3.15
Islamic History								
	.	.	M.	20	10-12	W.	28	10-12
			Tu.	21	10-12	W.	28	2-4

Timetable of Degree Examinations

Timetable of Degree Examinations—(continued)

<i>Subject</i>			<i>June</i>			<i>Sept.</i>		
Italian:								
1st Ordinary	.	.	F.	17	10-12	M.	26	10-12
			M.	20	1.15-3.15	Tu.	27	10-12
			M.	20	3.45-5.45	Tu.	27	1.15-3.15
2nd Ordinary	.	.	W.	15	10-12	Th.	22	10-12
			W.	15	1.15-3.15	F.	23	1.15-3.15
			Th.	16	10-12	F.	23	3.45-5.45
			Th.	16	1.15-3.15	M.	26	1.15-3.15
Intermediate Honours	.		W.	15	10-12	Th.	22	10-12
			W.	15	1.15-3.15	F.	23	1.15-3.15
			Th.	16	10-12	F.	23	3.45-5.45
			Th.	16	1.15-3.15	M.	26	1.15-3.15
Latin:								
1st and 2nd Ordinary	.		F.	10	3.45-5.45	Tu.	20	3.45-5.45
			M.	13	3.45-5.45	Th.	22	1.15-3.15
			W.	15	3.45-5.45	Th.	22	3.45-5.45
Intermediate Honours—								
Unseen	.	.	M.	6	9-12			
Commentary	.	.	Tu.	7	2-5			
Prose	.	.	W.	8	9-12			
Translation	.	.	Th.	9	9-12			
Logic and Metaphysics:								
1st Ordinary	.	.	W.	15	3.45-5.45	Tu.	20	3.45-5.45
			Th.	16	3.45-5.45	Th.	22	1.15-3.15
2nd Ordinary	.	.	W.	15	1.15-3.15	Th.	22	10-12
			Th.	16	1.15-3.15	F.	23	2-4
Mathematical Physics:								
Ordinary	.	.	M.	13	3.45-5.45	Tu.	20	3.45-5.45
			W.	15	3.45-5.45	Th.	22	1.15-3.15
Intermediate Honours	.		W.	15	9-12	Th.	22	9-12
			Th.	16	9-12	F.	23	2-5
Mathematics:								
1st Ordinary	.	.	F.	10	10-12	W.	21	10-12
			M.	13	10-12	F.	23	10-12
2nd Ordinary	.	.	W.	15	10-12	Th.	22	10-12
			Th.	16	10-12	F.	23	2-4
Intermediate Honours	.		W.	8	9-12	M.	19	9-12
			Th.	9	9-12	Tu.	20	9-12
Meteorology	.	.	W.	8	10-12	M.	19	10-12
			Th.	9	10-12	Tu.	20	10-12
Moral Philosophy	.	.	F.	10	3.45-5.45	Tu.	20	3.45-5.45
			M.	13	3.45-5.45	Th.	22	1.15-3.15

Faculty of Arts

Timetable of Degree Examinations—(continued)

<i>Subject</i>			<i>June</i>			<i>Sept.</i>		
Music:								
1st Ordinary	.	.	M.	6	2-5	M.	26	2-5
			Tu.	7	9-12	Tu.	27	9-12
2nd Ordinary	.	.	M.	6	9-12	M.	26	9-12
			Tu.	7	2-5	Tu.	27	2-5
Natural Philosophy:								
1st and 2nd Ordinary	.	.	W.	8	10-12	M.	19	10-12
			Th.	9	10-12	Tu.	20	10-12
Intermediate Honours	.	.	F.	10	9-12	W.	21	9-12
			M.	13	9-12	F.	23	9-12
Persian:								
Ordinary	.	.	M.	13	3.45-5.45	Tu.	20	3.45-5.45
			W.	15	3.45-5.45	Th.	22	1.15-3.15
			Th.	16	3.45-5.45	Th.	22	3.45-5.45
Intermediate Honours	.	.	F.	10	9-12	W.	28	9-12
			F.	10	2-5	W.	28	2-5
			M.	13	9-12	Th.	29	9-12
			M.	13	2-5	Th.	29	2-5
Phonetics	.	.	Tu.	7 ¹	M.	19 ¹		
			W.	8	10-12	Tu.	20	10-12
			Th.	9	10-12	Tu.	20	1.15-3.15
Political Economy:								
1st Ordinary	.	.	F.	10	1.15-3.15	W.	21	10-12
			M.	13	1.15-3.15	F.	23	10-12
2nd Ordinary	.	.	W.	15	3.45-5.45	Tu.	20	3.45-5.45
			Th.	16	3.45-5.45	Th.	22	1.15-3.15
Prehistoric Archæology:								
1st and 2nd Ordinary	.	.	Th.	10	9-11	M.	26	3.45-5.45
			Th.	10	2-4	Tu.	27	3.45-5.45
Psychology:								
1st and 2nd Ordinary	.	.	W.	8	1.15-3.15	M.	19	10-12
			Th.	9	1.15-3.15	Tu.	20	10-12
Public Law:								
Elements of Jurisprudence	.	.	W.	22	10-12	Th.	29	10-12
			W.	22	3.45-5.45	Th.	29	3.45-5.45

¹ Oral.

Timetable of Degree Examinations

Timetable of Degree Examinations—(continued)

<i>Subject</i>	<i>June</i>				<i>Sept.</i>			
Russian:								
1st Ordinary	M.	20	9-11		W.	28	9-11	
	Tu.	21	9-11		W.	28	1.15-3.15	
	Tu.	21 ¹	1.15-2.15		W.	28 ¹	3.45-4.45	
	Tu.	21	3.45-5.45		Th.	29	9-11	
2nd Ordinary and Inter- mediate Honours	M.	20	9-11		W.	28	9-11	
	Tu.	21	9-11		W.	28	1.15-3.15	
	Tu.	21 ¹	2.15-3.15		W.	28 ¹	4.45-5.45	
	Tu.	21	3.45-5.45		Th.	29	9-11	
	W.	22	9-11		Th.	29	1.15-3.15	
Sanskrit	W.	8	10-12		M.	19	10-12	
	Th.	9	10-12		Tu.	20	10-12	
	Th.	9	1.15-3.15		Tu.	20	1.15-3.15	
Scottish History:								
1st Ordinary	W.	8	10-12		M.	19	10-12	
	Th.	9	10-12		Tu.	20	10-12	
2nd Ordinary	W.	8	3.45-5.45		M.	19	1.15-3.15	
	Th.	9	3.45-5.45		W.	21	1.15-3.15	
Social Anthropology:								
1st and 2nd Ordinary . .	Tu.	21	10-12		W.	28	10-12	
	Tu.	21	1.15-3.15		W.	28	2-4	
Social Philosophy . . .	W.	15	3.45-5.45		Tu.	20	3.45-5.45	
	Th.	16	3.45-5.45		Th.	22	1.15-3.15	
Spanish:								
1st Ordinary	W.	8	10-12		M.	19	10-12	
	Th.	9	10-12		Tu.	20	10-12	
	Th.	9	1.15-3.15		Tu.	20	1.15-3.15	
2nd Ordinary	W.	15	10-12		Th.	22	10-12	
	W.	15	1.15-3.15		F.	23	1.15-3.15	
	Th.	16	10-12		F.	23	3.45-5.45	
Intermediate Honours . .	W.	15	10-12		Th.	22	10-12	
	W.	15	1.15-3.15		F.	23	1.15-3.15	
	Th.	16	10-12		F.	23	3.45-5.45	
	Th.	16	1.15-3.15		M.	26	1.15-3.15	
Statistics, Elements of .	M.	20	9-12		Tu.	27 ²	9-12	
Turkish:								
Ordinary ¹								
Intermediate Honours . .	Th.	2	9-12		Th.	15	9-12	
	F.	3	2-5		F.	16	2-5	
	M.	6	9-12		M.	19	9-12	
	Tu.	7	2-5		Tu.	20	2-5	
Urdu¹								

¹ Dictation.

² Three two-hour papers at times to be arranged.

² Or at times to be arranged.

Faculty of Arts

Timetable of Degree Examinations (*continued*)—

<i>Subject</i>			<i>June</i>			<i>Sept.</i>		
Zoology:								
1st Ordinary	.	.	Tu.	14	9-12	W.	21	2-5
			F.	17 ¹	9-12	Tu.	27 ¹	9-12
2nd Ordinary	.	.	Tu.	14	9-12	M.	19	2-5
			F.	17	9-12	W.	21	2-5
			M.	20 ¹	9-12	Tu.	27 ¹	9-12
			Tu.	21 ¹	9-12	Tu.	27 ¹	2-5

(B) M.A. FINAL HONOURS EXAMINATION

<i>Subject</i>								<i>June</i>		
ARCHÆOLOGY—										
Paper 1	.	.	.	.	.	.	.	Th.	2	9-12
Paper 2	.	.	.	.	.	.	.	Th.	2	2-5
Paper 3	.	.	.	.	.	.	.	F.	3	9-12
Paper 4	.	.	.	.	.	.	.	F.	3	2-5
Paper 5	.	.	.	.	.	.	.	M.	6	9-12
Paper 6	.	.	.	.	.	.	.	M.	6	2-5

CELTIC—

1. Old and Mid Irish	Th.	2	9-12
2. Early Welsh	Th.	2	2-5
3. Celtic Philology	F.	3	9-12
4. Literature and Folklore	F.	3	2-5
5. History and Archæology	M.	6	9-12
6. Special Subject	M.	6	2-5
7. Scottish Gaelic	Tu.	7	9-12

CLASSICS—

1. Latin Prose Composition	Th.	2	9-12
2. Latin Unseen Translation	Th.	2	2-5
3. Commentary on Latin Prescribed Books	F.	3	9-12
4. Greek Prose Composition	F.	3	2-5
5. Greek Unseen Translation	M.	6	9-12
6. Commentary on Greek Prescribed Books	M.	6	2-5
7. Translation from Greek and Latin Prescribed Books	Tu.	7	9-12
8. Greek and Latin Literature and Ancient Philosophy	Tu.	7	2-5
9. Ancient History (Prescribed Periods) and Antiquities	W.	8	9-12
10. Special Subject	Th.	9	9-12

ECONOMIC SCIENCE—

Political Science	Th.	2	9-12
Economics	Th.	2	2-5
”	F.	3	9-12
”	F.	3	2-5
Economic History	M.	6	9-12
Special Subject	M.	6	2-5
” ”	Tu.	7	9-12

¹ Practical.

Timetable of Degree Examinations—(continued)

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Faculty of Arts

Timetable of Degree Examinations—(continued)

<i>Subject</i>	<i>June</i>		
HISTORY—			
Political Science	Th.	2	9-12
British History	Th.	2	2-5
" "	F.	3	9-12
Documents	F.	3	2-5
Special Subject (except Fine Art)	M.	6	9-12
Special Subject (except Fine Art)	M.	6	2-5
European History	W.	8	9-12
" "	W.	8	2-5
ITALIAN—			
Essay	Th.	2	9-12
Prose	Th.	2	2-5
Unseen	F.	3	9-12
History of Language	F.	3	2-5
Dante	M.	6	9-12
Duecento and Trecento	Tu.	7	9-12
Renaissance	Tu.	7	2-5
Risorgimento	W.	8	9-12
MATHEMATICS AND NATURAL PHILOSOPHY—			
Physics 1	Th.	2	9-12
Dynamics	Th.	2	9-12
General Analysis	F.	3	9-12
Hydrodynamics and Theory of Sound	M.	6	9-12
Physics 3	M.	6	9-12
Quantum Mechanics	M.	6	2-5
Foundations of Analysis and Calculus	Tu.	7	9-12
Electromagnetic Theory	W.	8	9-12
Physics 5	W.	8	9-12
Advanced Statistics	W.	8	2-5
Algebra and Geometry	Th.	9	9-12
Mathematical Physics (General Paper)	Th.	9	2-5
Thermodynamics and Statistical Mechanics	F.	10	9-12
Mathematical Laboratory	F.	10	2-5
MENTAL PHILOSOPHY—			
Moral Philosophy	Th.	2	9-12
" "	Th.	2	2-5
Logic and Metaphysics	F.	3	9-12
" "	F.	3	2-5
Ancient Philosophy	M.	6	9-12
Logic and Metaphysics	M.	6	2-5
Essay	Tu.	7	9-12
PSYCHOLOGY—			
History	F.	3	9-12
Philosophy-Psychology Problems	F.	3	2-5
General and Experimental Psychology	M.	6	9-12
Social and Industrial Psychology	M.	6	2-5
Essay	Tu.	7	9-12
Advanced Psychology (General)	Tu.	14	9-12
Advanced Psychology (Child)	Tu.	14	2-5
Practical and Oral	F.	17	9-4.30

Timetable for Degree Examinations

Timetable for Degree Examinations—(continued)

	Subject		June	
RUSSIAN—				
Essay	Th.	2	9-12
Prose	Th.	2	2-5
Unseen	F.	3	9-12
Literature to Nineteenth Century	F.	3	2-5
Literature in Nineteenth Century	M.	6	9-12
History	Tu.	7	9-12
Language	Tu.	7	2-5
Special Subject	W.	8	9-12
SEMITIC LANGUAGES¹—				
Hebrew Books	Th.	2	9-12
"	Th.	2	2-5
Hebrew Unseen	F.	3	9-12
Hebrew Prose	F.	3	2-4
Arabic Books	M.	6	9-12
Special Subject	M.	6	2-5
Arabic Unseen	Tu.	7	9-12
Arabic Prose	Tu.	7	2-4
Hebrew History and Literature	W.	8	9-12
Arabic History and Literature	W.	8	2-4
Special Subject	Th.	9	9-12
SOCIAL ANTHROPOLOGY—				
Anthropological Theory	Th.	2	9-12
Social Organisation A	Th.	2	2-5
" B	F.	3	9-12
Ethnography of a Special Area	F.	3	2-5
Methods of Social Research	M.	6	9-12
Problems of Social Change or Race Relations	M.	6	2-5
Peasant Society or Industrial Society	Tu.	7	9-12
SPANISH—				
Prose Composition	Th.	2	9-12
Unseen and Essay	Th.	2	2-5
Literature to 1500	F.	3	9-12
Literature 1500-1700	F.	3	2-5
Literature from 1700	M.	6	9-12
European Background	Tu.	7	9-12
History and Geography	Tu.	7	2-5
Special Subject	W.	8	9-12
TURKISH—				
Paper 1	F.	3	9-12
Paper 2	F.	3	2-5
Paper 3	M.	6	9-12
Paper 4	M.	6	2-5
Paper 5	Tu.	7	9-12
Paper 6	Tu.	7	2-5
Paper 7	W.	8	9-12
Paper 8	W.	8	2-5

¹ Where Arabic is taken as principal language, for Hebrew read Arabic, and for Arabic read Hebrew throughout.

Faculty of Arts

Timetables for Degree Examinations—(continued)

(C) B.ED. DEGREE EXAMINATIONS

<i>Subject</i>		<i>June</i>	
Theory and History of Education	M.	13	9-12
	M.	13	2-5
Advanced Psychology	Tu.	14	9-12
	Tu.	14	2-5
Advanced Experimental Education	W.	15	9-12
Organisation and Administration of Schools	W.	15	2-5
Experimental Education ¹	Th.	16	9-12
Psychology ¹	F.	17	9-4.30

(D) B.COM. DEGREE EXAMINATIONS

<i>Subject</i>		<i>June</i>		<i>Sept.</i>	
Accounting: 1st and 2nd Ordinary	F.	10	9-11	W.	21 9-11
	M.	13	9-11	F.	23 9-11
Banking		<i>Mar.</i>			
	F.	18	2-4	Th.	29 9-11
Industrial Law		<i>June</i>			
	Tu.	21	9-11	W.	28 9-11
Mercantile Law I	M.	20	10-12	Th.	29 1.15-3.15
Mercantile Law II	M.	20	1.15-3.15	F.	30 3.45-5.45
Organisation of Industry and Commerce					
1st Ordinary	Tu.	14	3.45-5.45	M.	26 3.45-5.45
	F.	17	3.45-5.45	Tu.	27 3.45-5.45
2nd Ordinary	W.	15	3.45-5.45	Tu.	20 3.45-5.45
	Th.	16	3.45-5.45	Th.	22 1.15-3.15

III. Diploma Examinations

Diploma in Actuarial Mathematics:				<i>June</i>	
Paper 5	.	.	M.	20	9-12
Paper 6	.	.	M.	20	2-5
Paper 7	.	.	Tu.	21	9-12

¹ Practical and Oral.

Timetable of Diploma Examinations

Timetable of Diploma Examinations—(continued)

Diploma in Applied

Linguistics:

Paper 1	.	.	.	M.	13	2-5
Paper 2	.	.	.	Tu.	14	2-5
Paper 3	.	.	.	Th.	16	2-5

Diploma in Education:

Education 1	.	.	.	W.	8	9-12
Education 2	.	.	.	W.	8	2-5
Education 3	.	.	.	Th.	9	9-12
Education 4	.	.	.	Th.	9	2-5
Psychology 1	.	.	.	F.	10	12-2
Psychology 2	.	.	.	F.	10	3-5

Diploma in Phonetics:

Paper 1	.	.	.	Th.	9	9-12
Paper 2	.	.	.	Th.	9	2-5
Oral	.	.	.	F.	10	11-

Diploma in Social Study:

Administrative Law	.	Tu.	15	4-6	F.	1	12-2
Elementary Anatomy and Physiology	.	W.	9	10-12	M.	6	10-12
Social Biology	.	Tu.	1	10-12	Tu.	7	10-12
Social Services	.	W.	8	9-12	M.	19	2-5
Social Theory	.	Th.	9	9-12	W.	21	2-5
Advanced Psychology	.	F.	10	12-2	S.	24	9-11
Social Anthropology	.	M.	9	9-11	Th.	22	9-11

IV. Certificate Examinations

Certificate in Medical Social Work:

Medical Social Work	.	Th.	30	2-5	F.	30	2-5
Medical Information	.	F.	1	9-12	F.	30	9-12

Certificate in Nursing Studies:

Public Health and Social Medicine	.	M.	20	9-12	M.	19	9-12
Infection	.	M.	20	2-5	M.	19	2-5
Anatomy and Physiology	.	Tu.	21	9-12	Tu.	20	9-12

Certificate in Psychiatric Social Work

Casework and Administration	.	F.	1	10-1			
Psychological Medicine	.	Th.	30	10-12	F.	23	10-12

For Elementary Anatomy and Physiology *see* Diploma in Social Study

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Timetable of Certificate Examinations—(continued)

Certificate in Public Administration:

Accounting—			<i>June</i>			<i>Sept.</i>	
Paper 1 . .	Th.	16	3.45-5.45	Tu.	27	3.45-5.45	
Paper 2 . .	F.	17	9-10	Tu.	27	1.15-2.15	
Administrative Law					<i>Oct.</i>		
	M.	20	3.45-5.45	W.	5	10-12	
	Tu.	21	10-12	W.	5	2-4	
Banking . .			<i>May</i>		<i>Sept.</i>		
	Tu.	31	3-5	Th.	29	9-11	

For Constitutional Law, Political Economy and Statistics, see M.A. degree examinations; for Organisation of Industry and Commerce, see B.Com. degree examinations.

Certificate in Social Study:

Administrative Law .		<i>Dec.</i>		<i>Mar.</i>	
	Tu.	15	4-6	Tu.	15 4-6

For Elementary Anatomy and Physiology, Social Biology, Social Economics and Social Theory, see Diploma in Social Study examinations.

**FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS,
PRIZES AND BURSARIES**

General Conditions of Candidature, Tenure, and Payment

Both men and women students are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

No prize may be awarded more than once to the same person except by the special recommendation of the Faculty.

Except where special conditions of entry are given under the individual awards below, entry for fellowships, scholarships, bursaries and prizes must be made at the Matriculation Office by 15th September for those open in autumn, by 1st March for those open in spring, and by 15th May for those open in summer.¹

Except where otherwise provided by deed of foundation or by resolution of the Senatus, fellowships and scholarships are tenable only by persons who devote their time to post-graduate advanced study or research.

Holders of bursaries in the Faculty of Arts must (unless further special conditions are attached to their bursaries) pursue a curriculum for the degree of M.A. approved by the respective Directors of Studies and must present themselves in due course at the degree examinations.

The holders of all fellowships and scholarships must submit to the Dean, or to the respective Director of Studies acting for the Dean, in October and May, evidence that they have prosecuted post-graduate advanced study or research or otherwise fulfilled the conditions of tenure of their awards and have made satisfactory progress.

Holders of bursaries must submit to their respective Directors of Studies in October and in the summer term, on completion of their class attendance, evidence that the conditions of tenure of their awards have been fulfilled and that they have made satisfactory progress. All holders of fellowships, scholarships, bursaries and prizes must obtain certificates signed by the Dean, or by a Director of Studies on his behalf, attesting the fulfilment of the conditions of tenure.

Payments of fellowships, scholarships, bursaries and prizes (except those in the hands of agents outside the University) are made by the University Accountant, as follows:—First instalments from 15th October²; second instalments from 19th May for fellowships and scholarships, and for bursaries after completion of the class attendance as certified by the Directors of Studies.³ Those who do not apply within three months to the University Accountant for the instalments due to them will be regarded as having resigned, but a formal intimation of resignation should be tendered to the Dean and to the University Accountant.

¹ The Senatus may relax this regulation when very special cause is shown.

² On special cause shown and with the express approval of the Dean, payment of fellowships and scholarships may be made in one instalment.

³ Payments are made without deduction of Income Tax, but are assessable if not exempted under Section 458 of the Income Tax Act 1952:—"Income arising from a scholarship held by a person receiving full-time instruction at a university, college, school, or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

Faculty of Arts

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES AND PRIZES

I

Entrance Bursaries

The following entrance bursaries (*see* under "Entrance Bursaries") are tenable in the Faculty of Arts:—

(a) Entrance Bursaries awarded by the University.

Archibald or M'Guffie (<i>a</i>)	Johnstone (Robert)
Ardvorlich	Lennie
Beattie (John)	M'Diarmid
Blair	Macdonald (William)
Browne	Mackenzie (Stornoway)
Bruce	Mackinnon
Bruce of Grangehill	M'Lauchlan
Campbell (Robert Mackenzie)	Maclaurin
Chrystie	Mann
Cousin	Marshall
Dalglish and M'Morran	Maule
Davidson	Mitchell and Shortt
Donaldson of Auchairne	Patrick
Dundas	Penman
Fairbairn (James)	Pringle and Wardrop
Ford	Ramsay (Sir Andrew)
Fotheringham and Forrest	Renton
Fraser (Thomas)	Sibbald
Grant	Thomson (<i>b</i>)
Grierson (<i>a</i>)	Trotter and Penman
Jamieson	Weir, Jenkins, Hepburn and
Jardine (Bidder)	Lightbody
Jardine of Thorlieshope	Welsh (John)
Johnstone (Archibald)	Whitelaw
Johnstone of Harthope	Wight, M'Call and Christie

(b) Entrance Bursaries awarded by Outside Bodies.

Abercromby	MacDougall (John and
Angus (Edinburgh) Club	Isabella)
Association (Edinburgh) for the Uni-	Maclaine (Gillian)
versity Education of Women	Maclean (Alexander)
Ayrshire (Edinburgh) Club	Masterton Memorial
Baxter of Balgavies	Menzies
Borderers' (Edinburgh) Association	Millar
(<i>a</i>), (<i>b</i>), (<i>c</i>)	Millar Bequest
Caithness (Edinburgh) Association	Milligan-Paulin
Clan Mackay Society (<i>a</i>), (<i>b</i>), (<i>c</i>)	Miners' Welfare National
Cowan House Residential Scholar-	Scholarships and
ships (<i>a</i>)	Exhibitions
Dow	Morayshire (Edinburgh) Club
Dunbar	Nairn
Gillan	Newland (John)
Highlands and Islands Education	Orkney and Zetland
Trust (<i>a</i>), (<i>b</i>), (<i>c</i>), (<i>d</i>)	Rackstraw (Marjorie)
Inverness-shire (London) Association	Robertson (Archibald)
Lambert	Simson
Lanarkshire (Upper Ward of)	Stewart (Duart) (James)
Lewis	Zetland (Earl of)
McCaig	

Fellowships, Scholarships and Bursaries

II

Fellowships and Scholarships included in the Edinburgh University (Fellowships, Scholarships and Bursaries) Scheme, 1953

(a) POST-GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Regulations

- (i) Unless otherwise stated, awards of fellowships and scholarships will normally be made in the first place for a period of two years, with a possible extension of one year at the discretion of the Senatus on good cause shown.
- (ii) The Senatus, at its discretion, may permit more than one post-graduate award to be held by the same person but it is not permissible for any person to hold more than one Vans-Dunlop Arts Scholarship at one time.
- (iii) Unless the Senatus shall decide otherwise, no fellowship or scholarship shall be tenable with any paid employment.
- (iv) The values of the awards are stated approximately but the values of fellowships and post-graduate scholarships may be supplemented on good cause shown.

Baxter (John Edward) Scholarships.—(a) Classics; (b) Mathematics and Natural Philosophy; and (c) Philosophy.—Three scholarships of £150 p.a., awarded on the basis of examinations to Masters of Arts with Honours respectively in Classics, in Mathematics and Natural Philosophy, and in Mental Philosophy, of not more than three years' standing, or to undergraduates proceeding to a degree in Arts with Honours in one of these three subjects in the year of competition. The examinations are respectively in Classical Literature, Mathematics and Natural Philosophy, and Mental Philosophy.

1958, C. C. W. Taylor, M.A. (a); W. W. Bell, M.A. (b); R. A. Hannay, M.A. (c).

Baxter (Sir David) Scholarships.—(a) Mathematics and Natural Philosophy; and (b) Philosophy.—Two scholarships of £150 p.a. (a) This scholarship is awarded triennially on the basis of an examination in Mathematics and Natural Philosophy (the examiners being required to show a particular regard to Mechanical and Physical Science) to a Master of Arts with Honours in Mathematics and Natural Philosophy, of not more than three years' standing at the time of the examination, or to an undergraduate proceeding to a degree in Arts with Honours in Mathematics and Natural Philosophy in the year of the competition. (b) This scholarship is awarded triennially on the basis of an examination in Mental Philosophy to a Master of Arts of the University with Honours in Mental Philosophy, of not more than three years' standing at the time of the examination or to an undergraduate proceeding to a degree in Arts with Honours in Mental Philosophy in the year of the competition.

1959, I. T. Drummond, M.A. (a), and R. G. Overend, M.A.

Black (C. B.) Scholarships in New Testament Greek.—Two scholarships of £115 p.a.; one awarded annually on the basis of an examination in New Testament Greek, to an undergraduate or to a graduate of not more than two years' standing, who has attended the Honours class in Greek for at least one winter session or its equivalent. The holders must pursue the study of New Testament Greek, either by attendance at lectures on the subject in the University of Edinburgh, or another approved University, or by private study and research under approved conditions.

1958, J. Russell, M.A.; 1959, Gladys V. C. Chalmers, M.A.

Boswell (James) Scholarship.—£100 p.a. for three years (or, at the option of the holder, £150 p.a. for two years); awarded to a graduate or an undergraduate who has attended the First Ordinary Class in English and at least

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one other class in English Literature or Language, and who competes within five years of first entering a class qualifying for the M.A. degree. The examination will include:—(i) an essay on a biographical subject approved by the Professor of Rhetoric and English Literature; (ii) the essay paper, and the paper covering the period within which the subject of (i) falls, in the Final English Honours Examination. The holder, who must carry on advanced study or research and report periodically to the Senatus on his progress, will be expected to use the scholarship for residence and study at any university other than Edinburgh.

1958, J. G. Sharps.

Bruce of Grangehill Scholarships.—(a) Classics; (b) Mathematics and Natural Philosophy; and (c) Philosophy.—Three scholarships of £150 p.a.; awarded triennially to Masters of Arts of the University with or without Honours in the year preceding the year of the award, or to undergraduates proceeding to graduation, in the year of the award, the Senatus selecting a student for each scholarship who has graduated with Honours or who has in some other manner satisfied them that he is deserving of the scholarship. But they shall not award a scholarship to any graduate who was twenty-four before his graduation or to any undergraduate who will be twenty-four before his graduation. The scholarships are awarded to students in Divinity only when vacancies occur by the death, resignation, or dismissal of scholars in Arts, such vacated scholarships being tenable in Divinity during the unexpired period of tenure.

1957, G. A. Allan, M.A. (a). 1959, W. T. Eadie, M.A. (b).

Drummond Scholarship in Mathematics and Natural Philosophy.—£140 p.a.; one on each occasion of a vacancy on the basis of an examination in Mathematics and Natural Philosophy (the examiners being required to show particular regard to Natural Philosophy) to a Master of Arts of the University with Honours in Mathematics and Natural Philosophy of not more than three years' standing, or to an undergraduate proceeding to a degree with Honours in Mathematics and Natural Philosophy in the year of the examination. The Senatus may require the holder to travel in Great Britain and abroad to examine such remarkable engineering and architectural structures as he can conveniently visit, and to submit a report on the principal structures examined and the mathematical principles exemplified thereby, which may be publicly read in the University or elsewhere in Edinburgh.

1953, A. Neil, M.A.

Edmonstoun Aytoun Fellowship in English Literature.—£150 p.a.; awarded triennially for a thesis on English Literature to a Master of Arts of the University. The scholarship will be offered in January 1960.

1954, Kitty W. Scoular, M.A.

Gatty (Florence Emily and Charles Tindal) Memorial Scholarships.—£100 for one year (with a possible extension for a further period not exceeding two years); awarded to a Master of Arts of the University of not more than two years' standing, or to a student proceeding to the M.A. degree in the year of the award. The award will be made on the basis of the candidate's performance in the final Honours examination in English Language and Literature, or in the cases of candidates who have not taken that examination, on such other evidence of attainment and capacity for advanced study and research as the Faculty may require. The holder must pursue advanced study or research in Scottish Language and Literature, with special reference to the dialects on both sides of the Border and to such Border antiquities and music as bear on the subject. The holder must submit satisfactory reports periodically to the Faculty on his work, and must present a final report or deliver a course of public lectures in the University. (If a suitable candidate is not forthcoming to comply with this requirement the scholarship may be offered for the purposes of post-graduate advanced study or research in kindred subjects.)

1954, W. Crichton, M.A.

Fellowships, Scholarships and Bursaries

Gray (Simon) Prizes.—One or more prizes of such values as the Senatus shall fix; awarded annually for essays on a subject pertaining to Government, Politics, Moral Philosophy, or Statistics, to matriculated students who first matriculated not more than three years before the last date for submitting the essays. Subject for 1960: "The Role of the Cabinet in British Government, 1916-1956".

1959, B. T. Hall.

Guthrie Fellowship in Classical Literature.—£140 p.a.; awarded biennially on the basis of an examination in Classical Literature to a Master of Arts of the University who has graduated since the last competition for the fellowship; or to an undergraduate who has passed all the examinations necessary for the M.A. degree since the last competition, but has deferred graduation in order to take Honours; or to an undergraduate proceeding to the M.A. degree in the year of the examination.

1959, J. V. C. Wylie, M.A.

Hamilton Philosophical Fellowship.—£140 p.a.; awarded biennially on the basis of an examination in Logic, Metaphysics and Moral Philosophy to a Master of Arts of the University of not more than three years' standing.

1953, G. M. Greig, M.A.

Mackenzie Classical Scholarship.—£130 p.a.; awarded biennially on the basis of an examination in Classical and in English Literature (the Senatus having power to require a high standard in only one of the two subjects) to a Master of Arts of the University of not more than three years' standing; or to an undergraduate proceeding to the M.A. degree in the year of the examination.

1959, Angela M. Leach.

Maclaren (Charles) Scholarship in Mathematics and Natural Philosophy.—£200 p.a.; awarded biennially on the basis of an examination in Mathematics and Natural Philosophy (the examiners having particular regard to excellence in Natural Philosophy) to a Master of Arts of the University, with Honours in Mathematics and Natural Philosophy, of not more than three years' standing; or to an undergraduate proceeding to the M.A. degree with Honours in Mathematics and Natural Philosophy, in the year of the examination. No person aged thirty or over is eligible to compete. The Senatus may require the holder to travel in Great Britain and abroad to examine such remarkable engineering and architectural structures as he can conveniently visit, and to submit a report on the principal structures examined and the mathematical principles exemplified thereby, which may be publicly read in the University or elsewhere in Edinburgh.

1959, J. Cunningham, M.A.

McLauchlan Scholarship in Celtic.—£79 p.a.; awarded on the basis of such a competitive or other test as the Faculty of Arts may determine either to a Master of Arts of this University who has graduated with Honours in a group not including Celtic as a principal subject, or to an Honours graduate of another university. The holder must read in this University for Honours with Celtic as a principal subject. (If a suitable candidate is not forthcoming to comply with this requirement the scholarship may be offered for the purposes of post-graduate advanced study or research in kindred subjects.)

1957, G. W. MacLennan.

Macpherson Celtic Scholarship.—£135 for one year (or with a possible extension, at the discretion of the Senatus, for a second year); awarded to a student who has passed all the examinations necessary for the M.A. degree of the University with or without Honours, who has included either Latin or Greek among his qualifying subjects, and who has attended the Celtic class and obtained distinction in that subject. The holder must study Celtic in any university or other place offering special facilities for Celtic studies and approved by the Senatus; and he must submit to the Senatus a report of the work he

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has done and of such further Celtic studies as he proposes to undertake. (If a suitable candidate is not forthcoming to comply with this requirement the scholarship may be offered for the purposes of post-graduate advanced study or research in kindred subjects.)

1956, J. A. Evans, B.A.

Newton Post-graduate Scholarship.—£56 for one year; awarded annually by the Senatus on the recommendation of the Professor of Mathematics and tenable for post-graduate study of Mathematics in the University.

Pitt Club Scholarship in Classics and English.—£155 p.a.; awarded triennially on the basis of an examination in Classical and in English Literature, the Senatus having power to require a high standard in only one of the two subjects, to a Master of Arts of the University of not more than four years' standing; or to an undergraduate proceeding to the M.A. degree in the year of the examination.

1957, J. Russell, M.A.

Rhind Scholarships.—(a) Classics; and (b) French or Modern Languages. —Two scholarships of £120 p.a.; awarded on the basis of examinations to Masters of Arts of not more than three years' standing, who have attended classes in the University for not less than three academic years; or to undergraduates who have attended such classes for not less than three years.

1958, R. C. Loudon, M.A. 1959, J. Roy, M.A.

Scott (George) Travelling Scholarship.—£80 for one year (a previous holder being eligible for re-election); awarded annually by the Senatus on a report by the Faculty to a Master of Arts of not more than three years' standing to assist him in travelling for study or research. A preference is given to natives of Perthshire; whom failing, to suitable candidates desiring to undertake work in the following subjects in the following scheme of rotation:—Classical Languages and Classical Archaeology; Mental Philosophy; Mathematical and Physical Science or Geography; Semitic and Indian Languages; English and Modern Languages; History; when not awarded to a candidate in the group in which *pro hac vice* it should fall, the scholarship will be offered in the next group, and so on. The election of a preferential candidate will not change the rotation of the groups. Applicants are required to state the purpose to which they will put the scholarship and the other means which they have towards the object in view. The award is contingent on the importance of the proposed work, the sufficiency of the means, and the capacity of the applicants. The holder must satisfy the Senatus by half-yearly reports that he is carrying out the work undertaken, and must present a final report or deliver a course of lectures on the work when completed.

1954, Eleanor L. Moffatt, M.A.

Shaw Fellowship in Mental Philosophy.—£200 p.a.; awarded triennially on the basis of an examination in Logic, Psychology, Metaphysics, Moral Philosophy and the History of Philosophy to a Master of Arts of any Scottish university of not more than three years' standing, or to a student who, though he has not yet graduated in Arts, has passed the final examinations for such graduation within three years before the competition. In special circumstances the qualifying period may be extended. (This fellowship is exempt from the regulations set out above.)

1957, Juliet F. Toussaint, M.A.

Tweedie Exploration Fellowship in Archaeology and Anthropology.—The income of this Fund, amounting to about £150 p.a., is devoted to a Fellowship awarded for archaeological, ethnological, sociological or linguistic exploration and research in the less-known regions of Asia and Northern Africa. Candidates must submit a detailed project of investigation, and satisfactory evidence of their experience of such work and their capacity to undertake the particular research proposed. The fellowship is tenable along with other emoluments

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having a similar object. Apply to the Secretary to the University by 31st January.

1959, R. M. Harrison.

Vans-Dunlop Scholarships.—Sixteen scholarships of £150 p.a.; (a) one in Classical Learning (Latin and Greek); (b) two in English Literature and Poetry; (c) one in French; (d) one in German; (e) one in Hebrew and Oriental (Semitic) Languages; (f) two in History; (g) one in Mathematics; (h) one in Modern Languages (Italian and Spanish); (i) one in Natural Philosophy; (j) two in Philosophy and Moral Philosophy; (k) one in Political Economy; (l) one in Sanskrit and Comparative Philology; and (m) one in Geography. (For other Vans-Dunlop scholarships see Faculty of Law and Faculty of Science Programmes.) The scholarships are awarded on the basis of examinations to persons who have been matriculated students for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the examination not more than one year has elapsed since they ceased to attend University classes; and provided that not more than the number of years specified in the separate entries below has elapsed, since their first entering a class qualifying for the M.A. degree. Candidates who, if not already matriculated, must matriculate for the year in which the examination occurs, must on entering their names produce evidence that they are eligible.

(a) Classical Learning (Latin and Greek).—Candidates must have attended regularly the Latin and Greek classes qualifying for graduation, and must compete within four years of their first entering a class qualifying for the M.A. degree. The examination will include:—Latin and Greek composition; translation of unseen passages from Latin and Greek; Roman and Greek history and literature.

1957, Margaret H. Allan, M.A.

(b) English Literature and Poetry.—Candidates must have attended regularly the Rhetoric and English Literature class and at least one other class in English Literature or Language, and must compete within five years of their first entering a class qualifying for the M.A. degree. The scholarship will be awarded on the basis of papers 1, 3 and one of papers 4-7 in the Final Honours Examination, with the addition of a special paper on one of three alternative subjects announced in advance.

1959, Janetta M. M. Houston, M.A.

(c) French.—Candidates whose native language must be other than French, must have attended regularly at least two full courses (of which one must have been an Honours or an Intermediate Honours course) in French, and must compete within six years of their first entering a class qualifying for the M.A. degree. The examination will include:—Translation of unseen passages from and into French; an essay in French; philology, literature and history; and an oral examination to test pronunciation and the ability to read aloud intelligently and to converse correctly and fluently in French.

1958, Gertrud E. Aub, M.A.

(d) German.—The conditions for this scholarship are, *mutatis mutandis*, the same as for the scholarship in French.

1957, Margaret A. L. Brown, M.A., and H. W. Kirkwood.

(e) Hebrew and Oriental (Semitic) Languages.—Candidates must have attended regularly at least two courses in Semitic Languages, of which one must be an Honours course in Arabic or Hebrew, and must compete within seven years of their first entering a class qualifying for the M.A. degree. The examination will be combined, as far as possible, with the Honours examination in Semitic Languages.

1954, C. Caplan, M.A.

Faculty of Arts

(f) History.—Candidates must have attended regularly classes in History qualifying for graduation, and must compete within five years of their entering a class qualifying for the M.A. degree. The scholarship will be awarded on the performance of the candidates in the following papers in the Final Honours examination in History: 1. General British (including Constitutional) History, 55 B.C.-1939 (two papers); 2. European History (two papers); 3. Political Science (one paper).

1954, J. A. F. Thomson.

(g) Mathematics.—The examination will be as for the degrees with Honours in Mathematics and Natural Philosophy and in special subjects prescribed from time to time.

1958, D. I. Olive, M.A.

(h) Modern Languages (Italian or Spanish).—The conditions for this scholarship are, *mutatis mutandis*, the same as for the scholarship in French.

1953, R. Clarkson, M.A. (Italian).

(i) Natural Philosophy.—The scholarship will be awarded on the basis of the examinations for Honours in Mathematics and Natural Philosophy (M.A.). The holder will be required to continue his studies in the higher branches of Natural Philosophy, or to undertake research in that subject.

1959, A. V. Campbell, M.A.

(j) Philosophy and Moral Philosophy.—Candidates must have completed attendance at either the First Ordinary Logic and Metaphysics class or the Moral Philosophy class, and must compete within four (or five, if the candidates have taken Honours in a group other than Mental Philosophy) years of their first entering a class qualifying for the M.A. degree.

1958, Madhuri Santanam, M.A.

(k) Political Economy.—Candidates must have attended regularly the Political Economy class, and must compete within five years of their first entering a class qualifying for the M.A. degree. The examination will include the books set in Political Economy for Honours in Economic Science.

1959, D. R. F. Simpson, M.A.

(l) Sanskrit and Comparative Philology.—Candidates must have attended regularly at least two courses in separate years in Sanskrit and Comparative Philology, and must compete within six years of their first entering a class qualifying for the M.A. degree. The examination will include:—Translation of unseen passages and composition; questions on language and literature, religion and philosophy; Harṣa's *Ratnāvalī* and Bhāsa's *Pratijñāyugandhar yana*; *Sāmkhyākārikā*, with Gauḍapāda's commentary, and *Brahma-Sūtra*, Adhyāya ii, Pādas i and ii, with Śaṅkara's *Bhāṣya*; Ṛgveda, i, 1-50, x, 1-22.

1958, No award.

(m) Geography.—Candidates must compete within five years of their entering a class qualifying for the M.A. degree. The scholarship will be awarded normally on the basis of the examination for Honours in Geography, but subject to announcement at the beginning of the academic year in which the examination is held, by a special examination consisting of two papers of a general character.

1959, B. M. Niven, M.A.

(b) UNDERGRADUATE SCHOLARSHIPS AND PRIZES

Bruce of Grangehill and Falkland Prizes in Philosophy.—Two prizes of £20 and £10; awarded annually on the recommendation of the Professor to the most distinguished students in Logic and Metaphysics.

1959, A. V. Campbell (a); Miss J. H. Wilson and J. S. Robson (b).

Newton Undergraduate Scholarships.—Two scholarships of £28 p.a.; one awarded annually to the most distinguished student in the Natural Philosophy class. The holders must continue their studies in the higher branches of the

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subject, and at the end of their second year of tenure, either take Honours in Mathematics and Natural Philosophy or give other evidence of advanced study in Mathematics or Natural Philosophy. The holders also must (unless specially exempted for reasons approved by the Senatus) act during their tenure as student demonstrators in one of the Natural Philosophy classes for not more than two hours a week during not more than twenty weeks of one academic year.

1959, D. K. Scott.

III

Other Fellowships, Scholarships, Bursaries and Prizes

N.B.—The value of fellowships, scholarships, bursaries and prizes are stated approximately.

Angus (Edinburgh) Club Scholarships.—See Strathmore-Cobb Scholarships.

Arnott (Neil) Scholarship for Experimental Physics.—£33 for one year; awarded annually to the most distinguished student in the Physical Laboratory, who must assist the Professor of Natural Philosophy in the Laboratory during the ensuing session; if the Professor deems no such student worthy of the award, it may be given to a student for a degree in Arts who has passed the Natural Philosophy examination with the most distinction.

1959, S. Hart, B.Sc.

Auld Bursary.—£15 p.a.; awarded on a yearly tenure to a student of any Scottish university who is studying for the ministry of the Church of Scotland. Patrons, the Presbytery of Perth. Apply to Rev. W. D. Hunter, M.A., Clerk of the Presbytery of Perth, 23 Kincarrathie Crescent, Perth, by 15th August.

Baldwin Brown Travelling Scholarship in Fine Art.—£37 for one year; awarded annually on the basis of class examinations and essays to the best woman student in the Ordinary Fine Art class. The holder must study architecture, painting, sculpture, and the decorative arts in the buildings and collections of England, France, Belgium and Holland, and must furnish proof in writing to the Senatus that she has visited a fair proportion of the following places:—Cambridge, Canterbury, Durham, Ely, Lincoln, London, Oxford, Peterborough, York, Amiens, Beauvais, Chartres, Paris, Rheims, Antwerp, Bruges, Brussels, Ghent, Amsterdam, The Hague, Haarlem, Rotterdam, or other such centres where the art of these countries can be suitably studied.

1959, Kathleen J. Allanach.

Bartle Frere Memorial Fund.—The income of this fund, amounting to about £100 p.a., provides bursaries for overseas British students of approved merit, who, since entering any Faculty of the University, have become in need of financial assistance. The bursaries, the amounts of which are determined by the circumstances of each case, are awarded for one year, but may be extended from year to year for such periods as may be necessary to complete the holder's curriculum. Apply on first application or for renewal, to the Deans of the respective Faculties, if possible not later than 20th October, with a statement of eligibility as an overseas British subject, of financial circumstances, and of records of performances in University classes.

Berry (David) Gold Medal and Prize.—The medal and a prize of £50 are awarded triennially for the best essay on a subject (selected by the candidate with the approval of the Council of the Royal Historical Society) dealing with Scottish History within the period from the reign of James I to the reign of James VI inclusive. The essays must be genuine works of research, based on original (MS. or printed) materials; they must not have been previously published and must not have been awarded any other prize.

Blackie Celtic Prize.—£70; awarded triennially on the basis of an examination in Gaelic language and literature (and, if the examiners think fit, in any

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other branch of Celtic) to a student of the University, or to a graduate of any Scottish university under thirty and within six years of his graduation.

1957, G. W. MacLennan, M.A.

British Council Travel Grants.—To promote interchange between universities of the United Kingdom and other Commonwealth countries a number of grants towards the cost of travel are available for award to persons in the following categories; (A) university teachers or officers on recognised study leave, (B) distinguished scholars and scientists invited by universities for short visits, and (C) post-graduate research workers holding research grants. It is intended that the majority of the grants should be made to persons in category (A) and preference is given to university teachers of at least five years' standing. Awards in category (A) are not open to candidates who propose to study for a degree; they should apply under category (C). Applications in category (C) rank third in order of priority and awards are strictly limited in number; in general, preference is given to cases in which the holder of a graduate award of high standing requires additional assistance to meet the cost of travel. Applications in categories (A) and (B) must be submitted by 31st December and in category (C) by 31st March. Further particulars may be obtained from the Secretary to the University.

Brown (Richard) Scholarship.—£64 for one year; awarded annually to a graduate of any university of not more than five years' standing, or to an undergraduate of any university proceeding to a degree in the year of the award, by the Faculties of Divinity, Law, Medicine, Arts, Science and Music in rotation in such a branch of research as the Senatus may determine. A holder of the scholarship who is not a graduate of the University of Edinburgh must prosecute his research in it; an Edinburgh graduate may prosecute his research in this University or in such other institution as his Faculty approves. The scholarship will be open in 1960 in the Faculty of Science.

1959, Janet M. Poulter, M.A.

Butcher Memorial Prize in Greek.—£5; awarded annually to the best student in the Ordinary Greek Class.

1959, A. W. Edwards and J. N. Grant.

Carmichael (Robert) Scholarships.—The scholarships, the numbers and the values of which will be determined by the Court, are awarded to able and deserving students who are without sufficient means to complete their degree curricula.

Carnegie Trust for the Universities of Scotland: Endowment of Post-Graduate Study and Research.

(a).—*Carnegie Scholarships*—

I. The Executive Committee are prepared to consider annually applications for Carnegie Scholarships for post-graduate study and research in Science and Medicine and in History, Economics, English Literature and Modern Languages.

II. Applicants for Scholarships must be graduates of a Scottish University, or students who expect to graduate at a Scottish University within a short time of making their application.

The standard required for applicants in the Faculties of Arts and Science is First Class Honours.

III. Applicants for Scholarships must be nominated by a Professor, Reader, or Lecturer, in a Scottish University, or by a teacher of similar status in a College affiliated to a Scottish University.

Nominators must note that the number of Scholarships for annual award is limited and that the strictest standards of selection will be enforced. In assessing the suitability of applicants for nomination, they will be expected to have regard to the awards obtainable for research from such bodies as the

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Department of Scientific and Industrial Research, the Agricultural Research Council, and the Medical Research Council.

IV. Applicants for Scholarships in Science must report whether they are eligible to apply to the Department of Scientific and Industrial Research for a post-graduate award, whether they have made such an application, and, if they have not, their reasons for not doing so.

Particularly if their proposed subject for research is in Physics or Chemistry, they are advised that the Executive Committee reserves the right to give preferential consideration to applicants who are not eligible for Department of Scientific and Industrial Research awards.

V. The maximum annual value of a Scholarship will be £450, payable if the Scholar matriculates at the Universities of Oxford, Cambridge or London, or if he necessarily requires to spend the greater part of the year abroad in full-time research. For Scholars who matriculate at a University in the town of their permanent residence, the maximum award will be £350. The maximum for Scholars living away from home and matriculating at either a Scottish or an English provincial University will be £400.

VI. Scholarships will be tenable for one year in the first instance, and will normally be renewed for a second year, subject to satisfactory progress by the Scholar. In exceptional circumstances, they may be extended to a third year. The Scholar will be expected to devote his whole time to the purpose for which the Scholarship is awarded.

VII. The Executive Committee may, at their discretion, supplement bursaries, scholarships or fellowships awarded to their graduates by the Scottish Universities, provided that application has been made as prescribed in these Regulations, and that the application is in every way compatible with these Regulations, and that supplementation is not available from the Scottish Education Department.

Applicants for supplementation must furnish a certificate from the Secretary or Registrar of their University showing the title, value and length of tenure of the Bursary, Scholarship or Fellowship gained, and will be required to conform in every respect to the regulations governing Carnegie Scholars.

(This Regulation is provisional, and subject to alteration in the event of changes of policy by the Scottish Education Department.)

VIII. Scholars are under an obligation to report without delay any awards received after the date of their application.

IX. Scholars will be required to work under a supervisor; quarterly reports on their work must be made by both Supervisors and Scholars. Payments of the Scholarships will be made at the beginning of October, January, April and July, each instalment after the first being dependent on the receipt of satisfactory reports.

X. Nomination forms, to be signed by the nominator and the applicant, may be obtained from the Secretary to the Carnegie Trust for the Universities of Scotland, The Merchants' Hall, 22 Hanover Street, Edinburgh, and must be returned not later than 15th March in each year. The awards will be announced as soon as possible thereafter, probably about the middle of June.

(b).—Carnegie Senior Scholarships—

I. The Executive Committee are prepared to consider annually applications for a restricted number of Senior Scholarships in Science and Medicine, and in History, Economics, English Literature and Modern Languages.

II. The Senior Scholarships will be of the annual value of £500 together with a sum not exceeding £100 for fees, books and any necessary travelling expenses. They will be tenable for one year in the first instance but may be

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renewed for a second year and, in exceptional circumstances, a third year. Payment will be made in quarterly instalments.

III. Applicants must be graduates of a Scottish University and be able to adduce proof of successful research for a period of at least three years prior to the application. Applications are not confined to those who have previously held Carnegie Scholarships.

IV. Applicants must be nominated by a Professor, Reader or Lecturer in a Scottish University, and must submit the names of two authorities, other than the nominator, to whom reference may be made if deemed necessary. Successful applicants will work under the general direction of a supervisor for whom, twice annually, a certificate will be required attesting satisfactory progress. The Senior Scholar will himself furnish reports twice annually on the progress of his work. He will be required to give his full time to the purpose for which the Senior Scholarship is awarded.

V. Nomination Forms can be obtained from the Secretary to the Carnegie Trust for the Universities of Scotland, The Merchants' Hall, 22 Hanover Street, Edinburgh 2, and must be returned not later than 15th March in each year. The awards will be announced as soon as possible thereafter. All Scholarships, unless in very exceptional circumstances, will be tenable from 1st October in each year.

(c).—*Carnegie Fellowships*—

I. The Executive Committee are prepared to consider applications for Carnegie Fellowships in Science and Medicine, and in History, Economics, English Literature and Modern Languages.

II. The applicant must be a graduate of a Scottish University or a member of the staff of one of the Universities or Colleges in Scotland receiving grants from the Trust.

III. The number of Fellowships will be limited. Their annual value will be £800 together with a grant for expenses not exceeding £50 in instances in which such grant is considered necessary. The period of tenure will be, normally, one year but special periods of tenure may be arranged.

IV. Nominations of persons holding posts in one or other of the Scottish Universities will be made by the appropriate University Authority; nominations of graduates not so employed will be made by a Professor, Reader or Lecturer in a Scottish University. Arrangements will be made where necessary to maintain the employer's contribution to the Federated Superannuation System for Universities or similar scheme.

V. The Carnegie Fellows will undertake to give full time to the programme of research in respect of which the applications are made, but may, at the discretion of the Committee, engage in a limited amount of higher teaching or instruction associated with the special nature of their research work. They will come under an obligation to furnish a report once in each year on the progress of their work.

VI. Nomination Forms may be obtained from the Secretary to the Carnegie Trust, The Merchants' Hall, 22 Hanover Street, Edinburgh 2, and must be returned not later than 15th March in each year. The awards will be announced as soon as possible thereafter. All Fellowships, unless in very exceptional circumstances, will be tenable from 1st October in each year.

(d).—*Carnegie Grants in Aid of Research*—

The Executive Committee are prepared to consider applications for Grants in aid of research on the following conditions:—

I. An applicant for a Research Grant must be a Scottish University graduate

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resident in Scotland, or an actual member of the staff of one of the Universities or Colleges in Scotland receiving Grants from the Trust.

II. Applications must be made on a form which can be had from the Secretary to the Trust.

III. Applicants proposing to engage on research must furnish information on the following points at the time of making a first application:—

- (1) Their experience in research, with copies of or references to any published papers; or, if they have no papers to offer, with references to two or more authorities who are acquainted with their qualifications for research.
- (2) The nature of the research in which they desire to engage, and the results expected to follow therefrom.
- (3) A statement of special requirements for the proposed research, with a detailed estimate of the cost.
- (4) Whether they have received, or are receiving, any grant from any other source for the same object; and if so, what results have already ensued from their investigations.

Note.—Second or subsequent applications need not be accompanied by copies of published papers.

IV. By accepting a Grant applicants come under an obligation to pursue the programme of research which has been approved, and to send to the Executive Committee a report containing (a) a brief statement (not necessarily for publication) showing the results arrived at, or the stage which the inquiry has reached; (b) a statement of the expenditure incurred; and (c) copies of or references to any papers in which results of the research have been printed.

The Executive Committee expect that in every case the results of the research will be published in some form. Copies of the published records of all work carried out with the aid of a Grant must be forwarded to the Offices of the Trust without delay.

V. A Research Grant is not intended (1) to provide such permanent equipment as it is normally the responsibility of the University Courts to provide, or (2) to provide minor apparatus or research materials or instruments which should form part of the equipment of a Laboratory appropriate to the investigation, or (3) to relieve periodicals of the normal charges involved in publishing the results of researches.

VI. Grants are not applicable to the payment of salaries, wages, or honoraria, except in so far as they may be assigned for a specific purpose, as, for example, the cost of preparing necessary illustrations as specified in the application and approved by the Executive Committee. Such illustrations may include drawings, photographs or maps.

VII. Applicants for subventions towards the cost of publication of books must at the time of application, submit such MSS. as will enable the Trust's advisers to arrive at a recommendation in regard to the application.

VIII. Grants in aid of illustrations to an amount not exceeding three-fourths of the estimated cost may be applied towards the preparation of process blocks or other means of reproduction, and of the actual printing of the illustration, including any special paper necessary for the purpose. Grants are not applicable to the cost of printing and publishing the letterpress of the publication unless, in exceptional cases, special tabular matter is required. Applications for such grants in aid must, at the time of application, submit either an off-print of the publication or such MSS. as will enable the Trust's advisers to arrive at a recommendation in regard to the application.

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IX. Applications for Grants in aid of Laboratory Research, or of the adequate publication of its results, must be made by the individual workers concerned, and Grants made for specific purposes to one worker cannot be utilised by another (whether in the same Laboratory or not) without the express consent of the Executive Committee.

X. An application for a Grant to be used by two or more collaborators in the same research must be signed by each; but they shall appoint one of their number who shall be responsible for furnishing the report, for receiving and disbursing the money, and, in general, for the conduct of the research.

(e).—Special Awards—

The Executive Committee are prepared to consider applications for special awards to be made for the execution of particular research projects which may not fall within the scope of the foregoing Regulations.

Carruthers (James) Memorial Prize.—£15; awarded annually to the best student on both the practical and the theoretical sides who wins a diploma in Social Study in the year of the award.

1958, Maurcen E. Crawford, M.A.

Cecil Peace Prize.—£100 approximately; offered for an essay; open to graduates and students under the age of 25 years. The subject for 1959 is "The work of Lord Cecil of Chelwood for International Peace and Security." Essays should be submitted to the Hon. Secretary, The David Davies Memorial Institute of International Studies, Thorney House, 34 Smith Square, London, S.W.1., before 1st November.

Cousin Prize.—£13, 13s.; awarded annually for proficiency in class essays in the Fine Art class.

1959, January W. Wright, M.A.

Cunningham (John Craigie) Prize.—About £3 in books awarded for the best essay by a student in the Department of Social Study.

1958, Maurcen E. Crawford, M.A., and Alison G. C. Park, M.A.

Darling (Alexander) Scholarship.—£29 for one year; awarded annually on the basis of class examinations and class tests in Organisation of Industry and Commerce. The holder, unless exempted by the Senatus, must make a special study of some topic relating to the distributive aspect of commerce or must visit, study and report on, a retail establishment.

1959, Norma L. Macdonald, M.A.

Dickson (William) Travelling Fund.—The income of this fund, amounting to £110 p.a., is granted to graduates of any Faculty of not more than three years' standing (who may at the same time hold other scholarships, bursaries, etc.) to assist them in travelling for study or research. The awards are contingent on the importance of the proposed work, the sufficiency of the means, and the capacity of the applicants. The recipients of grants must satisfy the Senatus by periodical reports that they are adequately carrying out the work undertaken and must present a final report or deliver a course of public university lectures on the work when completed. Apply on forms obtainable at the Matriculation Office to the Secretary to the University by 16th May.

1958, W. Culigan, M.A.

Dominion Students' Hall Trust.—The Trust administers The Burn, Glenesk, Brechin, Angus, which is open all the year as a holiday residence for students and University staff from the Overseas Dominions and Colonies of the British Empire and from the United Kingdom. The charge for residence is £7, 7s. per week for senior staff, £5, 5s. per week for junior staff, and £5 per week for students. The University makes special provision for a limited number of approved reading parties, whose members pay £1, 15s. per week. Apply for further information to the Secretary to the University.

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Drever Prize in Psychology.—This prize, founded in memory of Professor James Drever, the first Professor of Psychology in the University of Edinburgh, is awarded annually, in the form of books to the value of £10, to the best student in the Honours classes, on the basis of such competition as the Professor of Psychology may from time to time determine.

Dundas (David) Memorial Fund.—The income of this fund, amounting to £48 p.a., is applied to assist students who within the previous three years have been members of the Honours Humanity Class, and who may be selected by the Professor to visit Rome and Italy. If the accumulations should at any time amount to over £100, any such sum in excess of £100 may be given, at the discretion of the Professor, to aid the publication of researches in Latin literature or history.

Edgar (C. S.) Prizes.—Two prizes of £5 each, awarded annually by the Professor of Greek on the basis of class exercises (*a*) in the Intermediate Honours class and (*b*) in the Honours class, neither prize being tenable together with the Scott and Dunbar Prize.

1959, J. V. C. Wylic (*b*), A. Howie and J. R. G. Wright (*a*).

Elliott (James) Prizes.—Two prizes of £40. (*a*) The English prize is awarded annually to the Honours graduate of the year whose work in Literature is judged to be the best by the examiners (who have the power to withhold the award if no candidate of sufficient merit appears). (*b*) The Scottish History prize is awarded annually for an essay bearing on the special period studied in the Honours class; the subject will be announced at the beginning of the course and the essays must be handed to the Professor before the end of the spring term.

1959, I. Budge (*b*); B. McCluskey, M.A.

Ferguson Scholarships.—(*a*) *Classics*; (*b*) *Mathematics and Natural Philosophy*; and (*c*) *Mental Philosophy*—Six scholarships of £250 p.a. for two years; one awarded annually in each subject to persons never before holders of a Ferguson scholarship, who have passed the examinations for the M.A. or B.Sc. degrees in a Scottish university, whether graduating at the same time or not; provided that at the time of the competition not more than six years have elapsed since their first entering a class qualifying for the M.A. or B.Sc. degree (excluding period of service in H.M. Forces). Holders of these scholarships will be expected during their tenure to prosecute their studies in the subject in which they have been successful or in such subjects as the trustees of the Ferguson Bequest Fund may approve; and those who have not graduated shall be required to do so before the last payment is made. The trustees may withhold a scholarship if no candidate of sufficient merit appears. Certificates will be granted to such unsuccessful candidates as distinguish themselves in the examinations. Apply to the Secretary, The Ferguson Bequest Fund, 19 St. Vincent Place, Glasgow, C. 1, by 1st August.

Fraser (Alexander Campbell) Scholarship in Philosophy.—(1) The Scholarship shall be called the Alexander Campbell Fraser Scholarship in the University of Edinburgh. (2) The Scholarship shall be awarded for the purpose of encouraging the study of Philosophy and for connecting the University of Edinburgh with the University of Oxford, the holder of the Scholarship becoming, if possible, a Member of Oriel College. (3) The Scholarship shall be of the annual value of £320 and shall be tenable for two years.¹ It may be held along with another scholarship or other scholarships, but in such event the annual value of the

¹ In special cases the Senatus may extend the period to not more than three years.

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Scholarship shall be diminished by the annual value of the other scholarship or scholarships. The money so accruing shall not be added to capital, but shall be kept available when it amounts to £700 for the award of a second Alexander Campbell Fraser Scholarship. (4) A candidate shall have obtained Honours in Mental Philosophy or in Classics and, in the latter case, he shall have attended the ordinary class of Logic and Metaphysics or the ordinary class of Moral Philosophy, and shall have shown aptitude for the study of Philosophy. The Scholarship shall not be awarded unless a candidate of sufficient distinction presents himself. At the date of his application not more than five years shall have elapsed since the time of his first entering a class qualifying for the Degree of Master of Arts or not more than six years if he has taken Double Honours. (5) The Scholarship shall be awarded on the recommendation of the Professor of Logic and Metaphysics, the Professor of Moral Philosophy and the senior in standing of the two Professors of Classics. The award shall be made, if possible, on the academic records of the candidates, but if it seems desirable, an additional test or examination may be held. (6) The holder of the Scholarship shall undertake to use it for the furtherance of his study of Philosophy. Unless when the Scholarship is awarded to a woman the holder shall become a Member of Oriel College (in which he will be styled "Campbell Fraser Scholar") and shall, in the University of Oxford, either (a) study for the Honour School of *Literæ Humaniores* or for the Honour School of Philosophy, Politics and Economics or any other recognised Honour School in the University of Oxford, which includes Philosophy as a major subject, and he shall take his Honour School at the end of his course or (b) shall undertake a course of study or research in Philosophy leading to a degree, and shall take the degree in conformity with the Regulations of the University of Oxford. (7) In the event of a candidate who is elected being a woman, she shall, if possible, become a Member of one of the Women's Colleges at Oxford and shall study as prescribed in Regulation 6. (8) The Senatus Academicus of the University of Edinburgh shall have power to alter these conditions and regulations from time to time, provided always that the Scholarship shall be used to encourage the study of Philosophy and that the connection (when possible) with Oriel College shall be maintained.

1956, J. Moffat, M.A.

Fraser (Donald) Bursary.—£45 for one year; awarded annually for high merit and proficiency in class and laboratory work in Natural Philosophy. The holder must assist in the Physical Laboratory and engage in research there. The bursary is not tenable along with any other fellowship, scholarship or bursary in any Scottish university.

1959, E. Geissler.

Fulbright Travel Grants.—Travel grants may be awarded to citizens of the United Kingdom or Colonies who are going to America for an academic or educational purpose. Applicants must be affiliated with an American institution of higher learning and must possess a guarantee of dollar support in America for the proposed period of their stay. No applications from post-graduates can be considered for a period of less than one academic year and from professors, lecturers and advanced research workers for a period of less than three months. Applications must be submitted by 15th March by those travelling between the following 1st June and 31st July, and by 15th June by those travelling between the following 1st August and 31st May. Apply to the United States Educational Commission in the United Kingdom, 55 Upper Brook Street, London, W. 1.

Gadgil (Gangadhar Balwant) Prize in Mathematics.—See Napier Medal.

Gilchrist Fund.—The income of this fund is used for the provision of scientific apparatus for teaching and research in the University.

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Government Studentships in Foreign Languages and Cultures.—£440-£500 p.a. for three to six years, for Oriental, Slavonic, East European and African studies; open to graduates with I Class Honours of a university within the British Commonwealth, who must not be over 35 years of age. Applications to be made to the Treasury Committee through the Secretary to the University, from whom further particulars may be obtained.

Gray Scholarship.—£118 p.a. for two years; awarded biennially for distinction in one of the Honours Groups for the M.A. degree; or in one of the subjects for the B.Sc. degree with Honours; or in the historical and philosophical subjects for the LL.B. degree; or in the final examination for the B.D. degree. The scholarship will be offered in rotation in Arts, Science, Law and Divinity. When it falls in Arts it will be offered in rotation in the order of the Honours Groups in the Arts regulations (as given in the *CALENDAR*, 1932-33, p. 57); when not awarded in the Faculty in which *pro hac vice* it should fall, it will be offered in the next Faculty in the rotation. The holder must satisfy the Senatus that he is pursuing special higher studies, or that he is engaged in original research in the University or in another approved by the Court; and he must also satisfy the Senatus of the importance of the work he proposes to do and of his qualification for it. The scholarship will be offered in Science in 1960.

1958, T. S. Pattie, M.A. (Classics).

Grierson Verse Prize.—£9; awarded annually to a matriculated undergraduate in any Faculty of the University of Aberdeen or the University of Edinburgh of not more than five years' standing by 30th April in the year of the competition. A student who has once won the prize may not compete again. The subject for 1960 will be 'Ode to Urania in the International Geophysical Year'. Entries (which must be of not more than 200 lines in typescript, which must bear a motto, and which must be sent in anonymously, accompanied by a sealed envelope containing the name and address of the candidate and bearing the motto on the outside for purposes of identification) to be lodged with the Secretary to the University by 30th April.

1959, Prudence A. Young (Aberdeen) and M. J. McAlister (Edinburgh).

Hamilton (Elizabeth) Prize.—£5; awarded annually to the best woman student (provided that a sufficiently high standard is reached), alternately in (a) the Ordinary Logic and Metaphysics and (b) the Moral Philosophy classes.

1959, Marion Glascoe.

Hardie Prizes.—Prizes awarded annually to students in the Honours Latin class for (a) Latin prose composition and for (b) Latin verse composition respectively. If no candidate of sufficient merit competes for the latter prize, prizes may be awarded for (c) excellence in an English essay on a prescribed classical subject.

1959, G. A. Weir and J. V. C. Wylie (a); G. A. Weir (1), J. V. C. Wylie and D. Herring (2 equal) (c).

Harkness Fellowships.—The emolument covers the full expenses of travel and of residence and study in the United States during the period of award. Several ordinary fellowships are open each year to candidates between the ages of 23 and 35 on 1st September of the year of award, who are graduates of a recognised university in the United Kingdom or in Australia, New Zealand or South Africa. The fellowships are open to women. In establishing the fellowships the directors of the Commonwealth Fund of New York (instituted in 1918 and supported by gifts from the late Mrs. S. V. Harkness and Mr. E. S. Harkness) were actuated by a belief in the value of international opportunities for education and travel to young men of character and ability, and by a conviction that such opportunities offered to British students would promote the mutual amity and understanding of Great Britain and the United States. Further particulars may be obtained from the secretary of the Committee of Award, 38 Upper Brook Street, London, W. 1. Forms of application, which are obtainable at the Matriculation Office, must be lodged with the Secretary to the University by 1st December.

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Harrison Bursary.—£34 p.a. for two years. Awarded biennially on the basis of class work done in (a) Classics, or (b) Mathematics, or (c) Logic and Metaphysics to a student entering his third year for the M.A. degree. In 1959, the bursary will be awarded in Mathematics.

1959, J. R. G. Wright.

Heatley (D. P.) Prize in Political Science.—£9; awarded annually to the best student in the Political Science class.

1959, A. W. Russell.

Highlands and Islands Education Trust Undergraduate Bursaries.—Bursaries of £25 p.a. for two years or one year, tenable in any Faculty of a Scottish university but restricted to Protestant students ordinarily resident in the Highlands and Islands of Scotland. The bursaries are tenable along with other bursaries. Apply with particulars of name, address, school, university, curriculum, and date of first matriculation to A. G. Cairns, W.S., 11 Alva Street, Edinburgh 2, by 31st May.

Honey Bursaries.—Three bursaries of £25 p.a. for three years or for the duration of a curriculum; tenable at any Scottish university, but restricted to students who intend to become ministers of the Church of Scotland. These bursaries may be held along with not more than one other bursary. Patrons, the Presbytery of Perth. Apply to the Rev. W. D. Hunter, M.A., Clerk to the Presbytery of Perth, 23 Kincarrathie Crescent, Perth, by 15th August.

Horseliehill-Scott Bursaries.—Two bursaries of £60 p.a. for two years; awarded, one annually, on the basis of class work in (a) Classics, or (b) Mathematics, or (c) Philosophy, to a student entering his third year for the M.A. degree. In 1959 a bursary will be awarded in Philosophy.

1958, A. W. Peacock (b). 1959, Miss J. H. Wilson (c).

Hume Brown Junior Prize in Scottish History.—£25; awarded annually for an essay on a prescribed subject to a present or past student of a Scottish university of not more than seven years' standing from his first matriculation who has not already gained the prize. Essays (which must each be distinguished by a motto and be accompanied by a sealed envelope containing the name, address and the academic standing of the candidate, and bearing the motto on the outside) to be lodged with the Secretary to the University of Edinburgh by 31st March. The subject for 1960 is 'An appreciation of the reign of James III.'

1959, No award.

Hume Brown Senior Prize in Scottish History.—£150; awarded biennially to a graduate of a Scottish university for an original contribution to Scottish History, unpublished or published not more than two years before the award. In submitting his work each candidate must declare that he has not previously published, nor has had accepted for publication, any other book on any aspect of Scottish History. Apply with a copy of the work to be submitted to the Secretary to the University of Edinburgh by 31st March.

1959, J. Bulloch, M.A., B.D., Ph.D.

Huntly Macdonald Sinclair Travelling Scholarship in Fine Art.—£20 for one year; awarded annually on the basis of examinations and essays to the best male student in the Ordinary Fine Art Class. The holder must study a subject to be approved by the Senatus; his researches must include visits to appropriate museums, galleries and buildings both inside and outside the British Isles.

1959, W. A. MacArthur.

Jackson Tait Memorial Fund.—The income of this fund is to be used for the purchase of apparatus, and for the financing of research in connection with the Natural Philosophy department.

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Keith (Margaret Balfour) Memorial Prize.—Four prizes of £6; awarded annually to the most distinguished student in each of the following classes: (a) British History Ordinary, (b) British History Honours, (c) Imperial and American History, and (d) Constitutional Law.

1959, J. D. Easton and J. F. S. Munro (a); J. C. Bertram (c); J. Brown (b); R. A. Edwards (d).

Keith (Margaret Stobie) Prize.—Awarded annually to the candidate who in the Final examination for Honours in Classics attains the highest distinction in his main subject of *either* Greek History, *or* Roman History, *or* Ancient Philosophy.

1959, D. R. Reid, M.A., and J. Roy, M.A.

Kelland Memorial Prize.—£3, 15s.; awarded annually on the basis of the Entrance Bursary examination in Additional Higher Mathematics (see Programme of Entrance Bursaries) to a student who made a complete attendance on a Mathematical class for the first time in the current year. Apply to the Matriculation Office by 1st April.

1959, M. R. Binns.

Kirkpatrick (Annabella) Prize Scholarship in History.—£75 for one year; awarded annually to the most distinguished graduate of the year in History with First Class Honours; whom failing, to the student who in the two years immediately preceding the award has obtained the highest distinction in Constitutional Law and in at least one other qualifying class in History or Political Science. This scholarship is exempt from the general condition of tenure for scholarships.

1959, I. Budge, M.A.

Lanfine Bursaries.—Six bursaries of £40 p.a. for two years; awarded, each biennially, on the basis of the degree examinations for the following six subjects: (a) English (Honours papers 1 and 4); (b) History (*either* the first paper in European History (general) and the first Honours paper in British History *or* the second paper in European History (general) and the second Honours paper in British History); (c) French (the June Intermediate Honours examination); (d) German (the June Intermediate Honours examination); (e) Spanish or Italian (the June Intermediate Honours examination); (f) Political Economy (the Intermediate Honours paper in Political Economy, and the general paper in Economic History for Honours in Economic Science). Candidates, who must have attended two classes (Ordinary or Honours) within their Honours Group, are eligible for the competitions after the completion of one academic year, or the first winter session, but not later than the beginning of the fourth academic year from the date of their first matriculation. The bursaries are not tenable after graduation unless the holders are continuing to study with the approval of the Faculty; nor are they tenable along with any other university bursary or scholarship.

1957, Tessa M. Ransford (d); 1958, Janet M. M. Houston (a); J. Ross (c); Ann E. L. Lucas (e); M. Capaldi (f).

Leverhulme Research Fellowships and Grants in Aid of Research.—The fellowships and grants are intended for senior workers who are prevented by routine duties or pressure of other work from carrying out research. They are limited to British-born subjects normally resident in the United Kingdom. In exceptional circumstances the Trustees may waive the condition as to residence. The Trustees are also prepared to consider applications from groups of workers engaged upon co-operative programmes of research. The duration of the awards will not normally extend over more than two years or less than three months and the amount will depend on the nature of the research and the circumstances of the applicant. Forms of application may be obtained from the Secretary, Leverhulme Research Fellowships, 3-5 Salisbury Square, London,

Faculty of Arts

E.C. 4. Applications must be received on or before 31st December in any year. Awards are announced in May in the following year and date from 1st September.

Lind Prize in Geography.—Offered annually for meritorious work in all aspects of the course at the conclusion of the third year of the Honours Geography curriculum.

1959, J. B. Millar.

Logie Robertson Memorial Prize.—£2, 15s.; awarded annually to a student in the Rhetoric and English Literature class who will be expected to be familiar with Scottish literature, including as may be determined from time to time the works of J. Logie Robertson ("Hugh Halliburton").

1959, D. Christison.

M'Caig's (Catherine) Trust Scholarship.—£200 for one year; awarded annually to a Master of Arts of any Scottish university who has included Gaelic among the subjects of his or her curriculum. The scholar must pursue the study of the Gaelic language or of one or other of the Celtic languages or of Gaelic music, to the satisfaction of the Governors. Tenure may be extended for not more than two periods of one year each. Apply to William Hume, B.L., 55 West Regent Street, Glasgow, C. 2.

Mackay (Charles Gordon) Lectureship in Greek Literature, History, Philosophy and Archaeology.—This lectureship was instituted in 1946 following a bequest by the late Mrs. M. M. Mackay. Appointments are made on the recommendation of the Faculty of Arts and each person appointed delivers usually only one lecture.

1960, Professor B. A. van Groningen.

Manson (William) Memorial Prize in Mathematics.—£13, 13s.; awarded annually to the student entering Arts or Pure Science who is placed highest in the John Welsh Mathematical Bursary List.

1958, G. R. H. Greaves.

Merchant Company Prize in Political Economy.—

1959, J. H. Purves.

Miller Bursaries.—Two bursaries of £40 each tenable for two years, awarded each year by the Trustees to Presbyterian students who have completed at least one year in Arts in the University of Edinburgh. They are awarded on the basis of the students' University record supplemented by an Examination, taking the form of an English Essay. Preference may be given to students proposing eventually to attend New College. Applications must be made by 15th October each year to Professor Norman W. Porteous, New College, The Mound, Edinburgh.

Moray (Earl of) Endowment for the Promotion of Original Research.—The income of this fund, amounting to about £1000 p.a., is applied in the first place to the payment of the actual expenses involved in the prosecution of original research. Any residue of the income of the Endowment which may remain after meeting applications for payments under this head may be allocated to grants to assist in the publication of noteworthy results, or to enable applicants to enter upon research. Where equipment or material for experiment is involved, it is the practice of the Moray Endowment Committee to recommend grants for such items as cannot reasonably be regarded as forming part of the common stock of a Department. All apparatus, specimens, books, journals, pamphlets, etc., and all unused chemical substances shall, at the termination of the research, be returned, or otherwise accounted for, to the University. All graduates and other members of the University, "or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research," are entitled to apply for assistance.

Fellowships, Scholarships and Bursaries

In so far as the subject of the research admits, the investigation shall be conducted in the buildings of the University. Applications will be considered only at the November and the March meetings of the Senatus. Apply to the Secretary, from whom printed forms of application may be obtained, by 9th October for the November meeting of the Senatus, and by 9th February for the March meeting.

Murchison of Taradale Memorial Trust.—The Trust administers Taradale House, Muir of Ord, Ross and Cromarty, which is open as a holiday residence during the Easter vacation and the months of June, July, August and September for meritorious students, preferably those studying either the history, language, literature and antiquities of the Highlands, or the natural sciences, including botany, geography, geology and ornithology. The charge for residence is £1, 10s. per week. Apply for further particulars to William Hume, B.L., 55 West Regent Street, Glasgow, C. 2.

Napier Medal and Gangadhar Balwant Gadgil Prize in Mathematics.—The medal and the prize of £13 are awarded annually to the most distinguished student in Mathematics in the Final Honours examination.
1959, J. Cunningham, M.A.

Nichol Foundation Scholarship.—£49 for one year (or longer on the recommendation of the Professor of Natural Philosophy); awarded to a deserving student who must regularly attend as an assistant in the Physical Laboratory and who must give his whole time to promoting the study of Natural Philosophy there. The grant cannot be received along with any scholarship or bursary.
1959, W. R. Black, B.Sc.

North Atlantic Treaty Organisation Fellowships and Scholarships.—The aim of the NATO Fellowship and Scholarship Programme is to encourage the study and research (preferably leading to publication) of such historical, political, constitutional, legal, social, cultural, linguistic, economic, scientific and strategic problems as reveal the common traditions and historical experience of the North Atlantic area considered as a Community, and give insight into its present needs and future development.

Fellowships are intended primarily for members of university staffs, and Scholarships for junior scholars at the post-graduate level. Fellowships are of F.frs.200,000 per month (or the equivalent in the currency of any other member state). They are normally awarded for 2 to 4 months, but may be extended to not more than 10 months. In addition, NATO will pay first-class travel by air for approved journeys.

Scholarships are normally awarded for study for a full academic year, though candidates may apply for a shorter period of from 6 to 10 months. Scholarships are awarded at a value of F.frs.500,000 (or the equivalent in European NATO countries), or \$2000 for Canada and the U.S.A. In addition, NATO will pay second-class travel by air and tourist class by sea.

Application forms and further information may be obtained from the Director of the Universities Department, The British Council, 65 Davies Street, London, W. 1, or from the Edinburgh Area Office of the British Council.

Nuffield Sociological Scholarships and Bursaries.—Scholarships of £500-£600 p.a. and bursaries of £350 p.a. tenable for one year but renewable up to a maximum tenure of three years, awarded to graduates in the humanities, other than graduates in the social sciences, psychology and economics. Successful applicants are required to undergo at an institution approved by the Foundation a course of training in sociological subjects, *e.g.* political science, social psychology, anthropology, social statistics, or sociology (but not economics). Forms of application and further details are obtainable from The Director of the Nuffield

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Foundation, Nuffield Lodge, Regent's Park, London, N.W. 1., with whom applications should be lodged by 1st May.

Ogilvie (Alan) Field Work Fund.—An annual sum of £10 is available to assist students not otherwise provided for to participate in Field Work in those courses in Geography where field work is required.

Ogilvie (Alan) Prize in Geography.—£15; awarded annually to a third- or fourth-year student in Honours Geography who shows the greatest proficiency in Field Work, as exhibited in Departmental Field Courses or Excursions.
1959, Jean D. Slater, M.A.

Patterson Bursary.—£22 for one year; awarded annually on the basis of the December examination in the Intermediate Honours course in English Language (Anglo-Saxon grammar, philology and translation, and the history of Anglo-Saxon literature). Candidates, who must have attended the Rhetoric and English Literature class, are eligible for the competition in the second, third or fourth year of their matriculation; those who are not members of the Honours English Language class should communicate with the Professor as early as possible.

1959, Moira Gunn and W. R. O'Donnell.

Post-Graduate Studentships, Research Grants and Fellowships (financed from general University funds).—

Studentships.—£300-£320-£340 open to graduates of a recognised university, of First or Second Class Honours or equivalent standing who propose to take Honours in a second subject or undertake equivalent advanced study or research under supervision in the University of Edinburgh or elsewhere.

Fellowships.—For original research, normally at this University, open to graduates of any university. Junior: £500-£550-£600; Senior: £750-£800-£850.

Research Grants.—Available to graduates of any university carrying out research under the direction of the Head of a Department of the University and to members of Staff of the University.

Conference Grants.—Available to members of Staff of the University wishing to attend conferences abroad.

Conditions of award and application forms for Studentships, Fellowships, Research Grants and Conference Grants may be obtained from the Matriculation Office, or from the Offices of the Deans of the Faculties of Medicine and Science.

Rankin (Mary Theresa) Prize in Political Economy.—Awarded annually in the Honours Class of Political Economy.

1959, D. R. F. Simpson.

Rhodes University College Scholarships.—Two scholarships of £300 for one year; awarded to British men graduates of a British university, preferably not over twenty-five, to enable them to take a diploma in Education at Rhodes University College, Grahamstown, Cape Province, South Africa, with a view to settlement in South Africa as teachers in Government schools or in private schools approved by the Rhodes University College authorities or in universities in South Africa. Apply to the Appointments Secretary, from whom further particulars may be obtained, by 1st May.

Ritchie Scholarships for Civil Service Candidates.—Two scholarships of £64 for one year (in the first instance, a previous holder not being ineligible for re-election); awarded without examination on the basis of work already done in this University to students who intend to compete for Civil Service appointments in the Administrative Group of Services (*i.e.* the Administrative

Fellowships, Scholarships and Bursaries

Class of the Home Civil Service and the senior branch of the Foreign Service). Candidates must have completed at least three years as students for a degree at the date of their application, and they must still be eligible to compete for the above services in the following August. They will be expected to show such distinctions as the following:—Second Class Honours (at least) in some Group in Arts; a Science degree with at least second class Honours; first class merit certificates in three or four different courses. The holders must declare their intention of competing for one of the Services within the Administrative group; and they must pursue their studies towards that end, and submit periodical evidence of industry and progress in the subjects which they mean to offer in the competition. The holders of scholarships may offer themselves again as candidates. They will not be debarred from entering their names also as candidates for appointments in the Colonial Administrative Service or other Services of similar standing; and if offered an appointment therein, they will be free to accept, but in such a case they will be deemed to have resigned their scholarship and will receive no further instalments. The scholarships are not tenable along with any other scholarship or bursary without the approval of the Senatus. Apply with evidence as to age and a list of class and degree distinctions to the Secretary to the University by 1st October.

1958, W. G. Robertson.

Royal Scottish Geographical Society Medal.—A silver medal awarded annually to the best student in any of the Geography classes.

1959, Isa Bowie.

Sainsbury (George) Prize.—Awarded annually to the best student in the Second Ordinary class of Rhetoric and English Literature.

1959, R. C. Kean.

Scott and Dunbar Prize.—£15; awarded annually on the basis of such examination as the Principal and the Professors of Divinity, Greek and Humanity may direct to "the most deserving and learned student" in the Greek classes.

1959, G. A. Weir.

Seth (James) Prize.—£13 awarded annually on the basis of such competition as the Professor of Moral Philosophy may decide to the most distinguished student in the Ordinary Moral Philosophy class.

1959, A. M. Mowat.

Sharp Bursary.—£16 p.a. for four years (or for the duration of a curriculum); tenable at any Scottish university, but restricted to students of Divinity who are members of the Church of Scotland. A preference is given to students named Sharp or Sim; failing whom, to those natives of, or residents in, the Presbytery of Perth. Patrons the Presbytery of Perth. Apply to the Rev. W. D. Hunter, M.A., Clerk of the Presbytery of Perth, 23 Kincarrathie Crescent, Perth, by 15th August.

Shaw Macfie Lang Fellowship.—£220 for two years; awarded biennially on the basis of an examination (the subjects and conditions of which are fixed by the Senatus with the concurrence of the Court) to a graduate with Honours of any Scottish university. The fellow shall engage in study or research on conditions to be approved by the Senatus. The fellowship is not tenable along with any other fellowship, scholarship or bursary of a Scottish university.

Skirving Scholarship and Gold Medal¹ **in Moral Philosophy.**—£56 p.a. for three years (the cost of the medal is a charge on the first year's stipend); awarded triennially to a Master of Arts or to an undergraduate in Arts, who

¹ Until further notice, the medal will be silver-gilt. The winner, however, will be entitled "gold medallist."

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has attended in separate years the Ordinary class in Moral Philosophy and *either* the class in Social Ethics *or* the Honours class in Moral Philosophy, provided that not more than two academic years have elapsed between the attendance on the first of these classes and the year of the competition. The applicant may be required to present evidence of further study in the subject. The scholarship is not tenable along with any other fellowship or scholarship in the University.

1958, A. V. Campbell.

Sloan Prize.—£11; awarded annually for a prose or verse composition in Lowland Scots vernacular to a matriculated student or to a graduate of less than three years' standing. Each competitor must state the particular dialect in which his composition is written, as accuracy in the use of the chosen dialect will be a factor along with the literary and imaginative interest of the composition in determining the award. Compositions, each of which must bear a motto and be accompanied by a closed envelope containing the competitor's name, to be lodged at the Matriculation Office by the first week of the summer term.

1959, R. Edgar.

Spence Bursaries.—Bursaries of £30 for the first year of tenure and £40 for the second (with a possible extension for a third year at £50 on condition that the bursar is engaged on such an Honours curriculum as the Governors of the Spence Bursary Trust approve); awarded annually (*a*) for Classics, and (*b*) for Mathematics, to students who, having passed the Preliminary examination or its equivalent, have attended one session in Arts or Science in the University of Edinburgh, who have attended at least two classes qualifying for graduation, and who intend to graduate M.A. or B.Sc. at the University. The competition is held in the Examination Hall in June. Patrons, the Governors of the Spence Bursary Trust. Apply on schedules of application to R. W. Matthewson, B.L., C.A., 1 Bank Street, Dundee.

1957, G. A. Weir and C. L. Murison (*a*); J. S. Rose and D. J. S. Robinson (*b*).

1958, J. R. G. Wright and A. Howie (*a*); H. E. Woodman, I. G. Halliday and I. A. Campbell (*b*).

Spence (Magnus) Memorial Prize.—£10; awarded annually to a student in attendance at one of the four Scottish universities or approved colleges, who has been educated in a school or schools in Orkney or Shetland and whose academic record in the year of the competition shall be judged the best of those competing. Apply on forms of application to R. D. Mowat, M.A., Hon. Secretary, Orkney and Zetland Association, 10 Merchiston Bank Gardens, Edinburgh 10, by 20th July.

1958.

State Studentships for Post-graduate Study in Arts Subjects.—The Minister of Education offers State Studentships for post-graduate study in Arts subjects. These studentships are not available for vocational or professional courses, nor is Mathematics regarded as an Arts subject. They are open to all graduates of British Universities, with first or good second class degrees, who are normally resident in England and Wales. Candidates over the age of 27 will be considered only in exceptional circumstances. The studentships are tenable for the duration of an approved course of post-graduate study not exceeding three years. For further information apply to the office of the Dean of the Faculty of Arts.

Stevenson Exchange Scholarships.—The scholarships, of approximate value £300 for one year, are open to undergraduates of any Faculty and graduates of not more than twenty-five years of age of any Scottish university, and are tenable at any French, Spanish or German university. Applications in special cases will be considered from candidates up to thirty-five years of age and

Fellowships, Scholarships and Bursaries

from candidates who have not yet matriculated but who are in possession of a certificate of fitness of the Scottish Universities Entrance Board, and who intend to take a degree in a Scottish university.

Scottish students will be required to attend a selected French, Spanish or German university (in the last case under conditions laid down by the Foreign Office) and will be required to pay their own travelling expenses to and from France, Spain or Germany.

Forms of application may be obtained from the Secretary to the University, with whom applications are to be lodged not later than 28th February.

Stewart (Daniel) Prize in Political Economy.—

1958, Fiona M. Fordyce.

Stirling (James Hutchison) Prize.—£8; may be awarded annually to the best student studying for the degree of M.A. with Honours in Philosophy who has attained a second course in Philosophy, but who is not yet in his final year.

1959, R. C. Smith and B. J. Aston.

Strathmore-Cobb Scholarships.—A scholarship of £200 p.a. Awarded biennially to natives of Dundee or Angus or to persons educated for not less than five years at schools in Dundee or Angus, who are graduates of not more than two years' standing of this or of St. Andrews University, or who are undergraduates of either University proceeding to a degree in any Faculty in the year of the award. Candidates from St. Andrews University must have taken the major part of their curriculum at Queens College, Dundee. The holder must produce satisfactory evidence that they are pursuing advanced studies or are engaged in original research in such a university or centre as may be approved; and they must twice a year submit reports on their work in Edinburgh University to the Dean of their Faculty, or in Queens College, Dundee, to their Adviser of Studies. Candidates from this University must apply to the Secretary to the University by 1st June, with particulars of classes attended and distinctions gained, of graduation or degree examinations passed or to be passed, and of the higher study or research proposed, their fitness for it, and the place or places where it would be carried out. Apply to H. L. Duke, W.S., 11 South Charlotte Street, Edinburgh 2.

Stuart Bursaries.—Two bursaries of £25, 10s. p.a. for three years; awarded to students entering their second year for a degree in Arts or Pure Science. The tenure of a bursary for a third year by a student who has graduated at the end of his second year of tenure is conditional on the approval by the Senatus of a course of study in subjects in the curriculum for degrees in Arts or Pure Science.

1957, Janetta M. M. Houston and R. J. Ross.

Student Travel Fund.—To enable selected undergraduates to make visits abroad which are considered desirable for their courses of study. Awards are not made in respect of travel or residence abroad which is a required part of a degree course. Non-graduation students are not eligible. Completed application forms should reach the Secretary to the University by 31st May.

Supplemental Allowances (Scottish Scholars at English Universities).—Under the provisions of the Supplemental Allowances (Scottish Scholars at English Universities) Regulations, 1949, the Scottish Education Department will consider making supplemental allowances to students normally resident in Scotland who have been awarded University scholarships or post-graduate studentships, and who intend to pursue their studies at an English university. Applications to the Secretary to the University by 31st July (or in exceptional circumstances at other times), stating name, value and date of University award,

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and particulars and starting date of course of study to be taken at an English University.

Thomson (Godfrey) Research Fund Bursaries.—Two bursaries of £100 awarded annually to the two most meritorious students who, after gaining the Diploma in Education, propose to spend an additional year in studying for the B.Ed. degree.

Funds are also available from which bursaries may be paid to Diploma and B.Ed. students who apply for help in defraying their expenses in attending educational conferences.

Apply to the Chairman, Godfrey Thomson Research Fund, Department of Education, 48 Pleasance, Edinburgh, not later than 1st August.

Victoria Jubilee Bursary (for Women).—£30 for one year; awarded annually in whole or in part to a woman student entering her fourth year for an Honours degree in Arts or in Science. The holder must reside in Masson Hall. Application forms from Miss J. Macrae Taylor, 6 Great Stuart Street, Edinburgh 3, to be returned by 25th March.

Wardlaw (D. R.) Memorial Bequest.—The income of this fund, amounting to £130 p.a., is applied by the Court for the behoof of indigent and deserving students in any Faculty who may be temporarily incapacitated from pursuing their studies through illness or injury; or, in so far as the income is not required for the above purpose, for the behoof of indigent and deserving students not incapacitated. Beneficiaries of the fund may regard the grants as loans from the Court to be repaid at any future time in whole or in part if altered circumstances enable them to do so; and the Court may accept, but must not stipulate or enforce repayment. Apply on forms obtainable from the Matriculation Office to the Deans of the various Faculties.

Watson (George) Prize in Political Economy.—
1959, A. J. Baker.

Webster and Davidson Mortification for the Blind.—The Governors are prepared to consider applications for grants, to be applied in the education, maintenance and advancement in life of blind young men and women resident in Scotland, over eighteen years of age, at any school, college, university, or other educational establishment whatsoever, in Great Britain, providing higher educational facilities for the blind. For further particulars and forms of application apply to A. J. Lindsay Robertson, Solicitor, 2 Union Street, Dundee, Clerk to the Governors.

W.S. Society Prize.—£10, 10s.; awarded annually to the best student in the Honours Latin class.
1959, G. A. Weir.

The following fellowships, scholarships, bursaries and prizes are tenable by students in the Faculty of Arts. Full details are given in the programmes of the Faculties indicated.

Anderson Henry Prize (Medicine)
Arnott (Neil) Prize for Experimental Physics (Medicine)
British Association Exhibitions (Science)
British Association Meeting Exhibitions (Science)
Cowan House Scholarships (Entrance Bursaries)
Crombie Scholarship (Divinity)
Crum Brown Medal (Science)
Dewar Research Fellowship (Science)
Dewar Research Fund (Science)
Dobbie Smith Prize for Botany (Medicine)

Fellowships, Scholarships and Bursaries

MacGillivray Prize (Science)
Mackay Smith Scholarships (Science)
McKissack Bursary (Divinity)
Nature Conservancy Research Studentships (Science)
Ramsay Memorial Prize (Science)
Ramsay Wright Scholarship (Science)
Ritchie Fund (Science)

FACULTY OF SCIENCE PROGRAMME

DEAN :—PROFESSOR HIRST

TABLE OF COURSES

AUTUMN TERM—Oct. 13 to Dec. 18, 1959

SPRING TERM—Jan. 12 to March 18, 1960

SUMMER TERM—April 19 to June 17, 1960

Non-matriculated students are admitted to courses marked with an asterisk (*) on the payment of an entry fee of £1 and fees for the individual classes taken—£5, £8, £10 for classes of one, two and three terms respectively, and £5 for a two- or three-term class which meets on fewer than thirty occasions.

General

COURSES	Day of Opening	Hour	Lecturers	See also page
GERMAN TUTORIAL COURSE (Minto House : 3 terms)	Oct. 15	5	Dr Furness	531
THE NATURE OF KNOWLEDGE (Old College)			Dr Broadie	531
SCIENTIFIC RUSSIAN COURSE (Minto House : 3 terms)	Oct.		Mr Ward	531

Pure Science

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
MATHEMATICS (Mathematical Institute) :—				
Mathematics I (3 terms)	Oct. 13	12	Prof. Aitken, and Lecturers	548-549
Mathematics II (3 terms)	Oct. 13	11		
Mathematics III and IV :—				
*Foundations of Analysis (aut.)	Oct. 13	10		
*General Analysis (spring)	Jan. 12	10		
*Algebra and Geometry (aut. and spring)	Oct. 13	10		
*Mathematical Laboratory Course (spring)	Jan.			
Mathematics (special course) (autumn and spring)	Oct. 13	12		
*First Actuarial Course (3 terms)	Oct. 13	12		
*Second Actuarial Course (3 terms)				
Statistics :—				
Elements of Statistics (summer)	Apr. 19	4	Dr Lawley	549
Advanced (autumn and spring)	Oct. 15	3		
MATHEMATICAL PHYSICS (1 Roxburgh Street) :—				
Course I (3 terms)	Oct. 13	10	Prof. Kemmer and Lecturers	550-552
Course II (3 terms)	Oct. 13	12		
Course III (3 terms)	Oct. 13	11		
Course IV (2 terms)	Oct. 14	12		
Mathematical Methods in Physics (autumn)	Oct.			
PHYSICS (Drummond Street) :—				
Physics I (A) (3 terms) :—				
Lectures	Oct. 13	11	Prof. Feather, and Lecturers	552-553
Laboratory				
Physics I (B and C) (3 terms) :—				
Lectures	Oct. 14	11		
*Laboratory				
Physics II :—				
Lectures	Oct. 13	9		

Faculty of Science

Pure Science (continued)

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
Physics III :— Compulsory courses	Oct. 13	9	Prof. Feather, and Lecturers	553-556
Physics IV :— Compulsory courses	Oct. 13	9		
Optional courses :— Advanced Meteorology	Apr.			
Astrophysics	Apr.			
Theoretical Physics	Oct. 14	12		
Laboratory	Oct.			
METEOROLOGY (Drummond Street) :— Course I (3 terms)	Oct. 14	11	Mr Paton	556
Advanced Course (summer)	Apr.			
ASTRONOMY (Mathematical Institute and Royal Observatory) :— Astronomy I (3 terms)	Oct. 14	5	Prof. Brück	557
Astrophysics				
CHEMISTRY (King's Buildings) :— Chemistry I (3 terms) :— Lectures	Oct. 14	9.30	Prof. Hirst, Prof. Cottrell, and Lecturers	557-558
Laboratory	Oct.			
Chemistry II (3 terms)	Oct. 14	12.30		
Chemistry III (3 terms)	Oct. 13	12.30		
Chemistry IV (autumn and spring)	Oct. 13	9.30		
Laboratory (II, III, and IV)	Oct. 13	9.30-4.30		
BIOCHEMISTRY (New Buildings) :— Biochemistry I :— Lectures	Oct. 14	1	Prof. Fisher and Lecturers	559
Laboratory	Oct. 14	9		
Biochemistry II				
ZOOLOGY (King's Buildings) :— Zoology I (3 terms) :— Lectures	Oct. 14	2-5	Prof. Swann and Lecturers	559-560
Practical				
Zoology II (3 terms) :— Lectures	Oct. 14	2-5		
Practical				
Zoology III (3 terms) :— Lectures	Oct. 13	2-5		
Practical				
Zoology IV (3 terms)	Oct. 13	9		
Laboratory				
BOTANY (Royal Botanic Garden) :— Botany I A (3 terms) :— Lectures	Oct. 13	2-5			Mr Roberts
Botany I B (3 terms) :— Lectures	Oct. 14	2-5		
Botany II	Oct. 14	9-12		
Botany III	Oct. 13	9-12	Prof. Brown, and Lecturers	560-561
Botany IV	Oct. 13	9-5		
Laboratory (II, III, and IV)	Oct. 13	9-5		
Plant Physiology (spring)	Jan. 13	9-12	Dr Nelson	561
GEOLOGY (King's Buildings) :— Geology I (3 terms) :— Lectures	Oct. 14	9.30	Prof. Stewart and Lecturers	562
Practical	Oct. 15	10.30-12.30		

Table of Courses

Pure Science (continued)

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
Geology I (Alternative course) (3 terms) :—				
Lectures	Oct. 14	2		
Practical	Oct. 16	3		
Geology II (3 terms) :—				
Lectures	Oct. 13	9.30		
Geology III (3 terms) :—				
Lectures	Oct. 13	9.30		
Geology IV :—				
Lectures	Oct. 13	9.30	Prof. Stewart and Lecturers	562
Economic Geology (aut. and spr.) :—				
Lectures	Oct. 13	2		
Geology for Applied Science (aut. and spring) :—				
Lectures	Oct. 14	12		
Engineering Geology (3 terms)				
PSYCHOLOGY (Old College) :—				
Psychology I (3 terms)	Oct. 14	11	Prof. Drever and Lecturers	563-565
Psychology II (3 terms)	Oct. 13	9		
Psychology III (3 terms)	Oct. 13	9		
ANATOMY (New Buildings) :—				
Anatomy I :—				
Lectures (autumn and spring)	Oct. 13	12	Prof. Romanes and Lecturers	565
Microscopic (3 terms)	Oct. 13	10-12		
Regional (summer)	Apr. 19	12		
Practical (autumn and spring)	Oct. 13	10 & 2		
Practical (summer)	Apr. 19	10 & 2		
Anatomy II :—				
Lectures (autumn)	Oct. 13	11		
Neuro-anatomy (aut. and spring)	Oct. 16	10		
Regional (autumn and spring)	Oct. 13	9		
Practical (autumn and spring)	Oct. 13	2-5		
Additional course (summer)	Apr. 19			
Anatomy III :—				
Human Morphology				
Human Embryology (autumn and spring)	Oct.			
PHYSIOLOGY (New Buildings) :—				
Physiology I (3 terms) :—				
Lectures	Oct. 15	9	Prof. Whitteridge and Lecturers	566-567
Practical	Oct. 13	2-5		
Demonstrations	Oct. 14	9		
Physiology with Pharmacology	Oct. 13	12		
Physiology III (including Practical and Demonstrations)				
Lectures	Oct. 13			
Biochemistry :—				
Lectures (3 terms)	Oct. 13	9	Prof. Fisher and Lecturers	558
Practical	Oct. 13	10.15-1		

Faculty of Science

Pure Science (continued)

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
BACTERIOLOGY (New Buildings) :— Bacteriology I (3 terms) Honours (3 terms)	Oct. 13 Oct. 13	9	Prof. Cruickshank and Lecturers	{ 567-568
PATHOLOGY (New Buildings) :— Honours (3 terms)	Oct. 14		Prof. Montgomery and Lecturers	{ 568
PHARMACOLOGY (New Buildings) :— Physiology with Pharmacology Pharmacology II (3 terms)	Oct. 13	12	Prof. Perry and Lecturers	{ 568-569
PREHISTORIC ARCHAEOLOGY (20 George Square) :— Course I (autumn and spring) Course II (autumn and spring) Course III	Oct. 13 Oct. 13	5 2	Prof. Piggott	{ 569-570
SOCIAL ANTHROPOLOGY (3 Buccleuch Place) :— Course I (3 terms) Course II (3 terms) Applied Anthropology (summer) Course III	Oct. 13 Oct. Apr.	4	Dr Little, Dr Littlejohn and Dr Collins	{ 570-572
GENETICS (King's Buildings) :— Course I Course II	Oct. 13 Oct. 13	9.30 9	Professor Waddington, and Lecturers	{ 572-573
BIOPHYSICS (King's Buildings) :—			Dr Dainty and Lecturers	{ 573

Table of Courses

Agriculture¹

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
AGRICULTURE (King's Buildings) :—				
History of Brit. Agriculture (3 terms)	Oct. 13	10	Prof. Watson, Dr Gordon and Lecturers	581-583
Crop Husbandry (B.Sc. : 2 terms)	Jan. 12	9		
Crop Husbandry (Scottish Diploma in Agriculture : 3 terms)	Oct. 13			
Crop Husbandry (Scottish Diploma in Dairying, and Certificate Course)	Oct. 13			
Animal Husbandry (B.Sc. : 3 terms)	Oct. 13	10		
Animal Husbandry (Scottish Diploma in Agriculture : 2 terms)				
Animal Husbandry (Scottish Diploma in Dairying, and Certificate Course : 2 terms)				
Practical Agriculture (B.Sc. ; Final Year)	Aug. 3			
*Colonial Agriculture : (autumn and spring)	Oct. 19	11	Mr J. P. Maule	583-
Experimental Agriculture (summer)	Apr. 20	11	Dr Lawley	584
AGRICULTURAL CHEMISTRY AND PHYSICS (3 terms)	Oct. 14	10	Dr A. M. Smith	581
ACCOUNTING : (autumn)	Oct. 13	9	Mr Knox	582
AGRICULTURAL BOTANY : (3 terms)	Oct. 13	2	{ Mr Heddle, Mr Cobley and Lecturers }	582
*AGRICULTURAL ZOOLOGY : (autumn and spring)	Oct. 14	11	{ Mr McHardy and Dr Guild }	582-583
GENETICS IN RELATION TO AGRICULTURE (autumn and spring)	Oct. 16	2	{ Sir A. Buchanan-Smith and Mr Cobley }	583
VETERINARY HYGIENE :—				
B.Sc. (autumn and spring)	Oct. 13	12	Prof. Robertson and Lecturers	584
S.D.A., S.D.D., and Cert. Course	Oct. 13	12		
FARM MECHANIZATION : (3 terms)	Oct. 13	9	Mr Walker	584
FORESTRY :—				
B.Sc. (aut., spr. and practical)	Oct. 16	4	{ Dr Mutch }	584
S.D. Hortic., etc. (part course)	Oct. 16	4		
AGRICULTURAL ECONOMICS : (3 terms)	Oct. 14	9	Mr M. A. Knox	585
AGRICULTURAL BACTERIOLOGY : (autumn and spring)	Oct. 13	11	Dr T. Gibson	585
ADVANCED AGRICULTURAL ENTOMOLOGY : (3 terms)	Oct.		{ Mr McHardy, and Dr Guild }	585-586
ADVANCED ECONOMIC MYCOLOGY (Royal Botanic Garden : 3 terms)	Oct.		Dr Blyth	586
ADVANCED ECONOMIC PLANT GENETICS (Royal Botanic Garden)			Mr Lyall	586

¹ For Chemistry, Botany, and Zoology, see under Pure Science.

Faculty of Science

Engineering

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
CHEMISTRY (King's Buildings) :—				
Lectures (3 terms)	Oct. 13	11	* * *	597
Laboratory (3 terms)	Oct. 19	2-5		
TECHNICAL MATHEMATICS :—				
First Course (Math. Inst. : 3 terms)	Oct. 14	10	Dr I. M. Brown, and Lecturers	597
Second Course (Math. Inst. and King's Buildings : 3 terms)	Oct. 14	9		
APPLIED MATHEMATICS (King's Buildings : autumn and spring) :—				
Course A	Oct. 13	10	}	598
Course B	Oct. 13	9		
ENGINEERING (King's Buildings) :—				
Engineering :—				
Lectures	Oct. 13	10	} Prof. Arnold and Lecturers	598-604
Laboratory	Oct. 13	11		
Drawing :—				
Lectures	Oct. 13	2		
Drawing Office	Oct. 13	3		
Group 1	Oct. 16	9		
Group 2	Oct. 14	9		
Group 3	Oct. 14	10		
Group 4	Oct. 13	12		
Engineering Graphics	Oct. 15	2		
Theory of Structures (Ord.)	Oct. 13	9		
Electronics and Communications (Hons.)	Oct. 13	10		
Hydraulics (Ord.)	Oct. 13	11		
Surveying II	Oct. 13	12		
Heat Engines III (Ord.)	Oct. 13	12		
Mechanical Engineering Design (Hons.)	Oct. 13	2		
Civil Engineering Design (Hons.)	Oct. 15	12		
Civil Engineering Practice (Ord.)	Oct. 14	9		
Electronics and Communications (Ord.)	Oct. 14	9		
Theory of Machines (Hons.)	Oct. 14	11		
Strength of Materials (Hons.)	Oct. 14	12		
Advanced Electricity and Electromagnetism (Ord.)	Oct. 14	12		
Civil Engineering Design (Ord.)	Oct. 15	9		
Strength of Materials (Ord.)	Oct. 16	9		
Theory of Machines (Ord.)	Oct. 14	11		
Heat Engines III (Hons.)	Oct. 15	3		
Civil Engineering Practice (Hons.)	Oct. 15	3		
Advanced Electricity and Electromagnetism (Hons.)	Oct. 19	9		
Hydraulics (Hons.)	Oct. 19	10		
Theory of Structures (Hons.)	Oct. 19	12		
Mechanical Engineering Design (Ord.)	Oct. 19	2		
Additional Subjects	Oct. 15	2		

Table of Courses

Engineering—continued

COURSES			Day of Opening	Hour	Professors and Lecturers	See also page
ELECTRONICS AND RADIO (King's Buildings)—:						
Electromagnetics	.	.			Prof. Arnold and Lecturers	598- 604
Networks	.	.				
Physical Electronics	.	.				
Servomechanisms	.	.				
APPLIED DYNAMICS (King's Build- ings):—						
Mechanical Vibration	.	.				
Gyro dynamics	.	.				
Theory of Control Systems	.	.				
*ELECTRICAL POWER (Heriot-Watt College)	.	.	Oct. 15	11	Prof. Say and Lecturers	603

Faculty of Science

Forestry¹

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
PHYSICS (Drummond Street : 3 terms)	Oct. 13	10	Dr Williams	611
CHEMISTRY (King's Buildings : lectures and laboratory)	Oct. 14	9.30	{ Prof. Cottrell Prof. Hirst and Lecturers }	611
ZOOLOGY (King's Buildings : lectures and practical : 3 terms)	Oct. 14	2	{ Prof. Swann and Lecturers }	611
FORESTRY (Forestry Department) :—				
*Course I	Oct. 13	9.50	{ Prof. Anderson and Lecturers }	{ 611- 615 }
*Forest Mensuration (summer)	Apr. 19	9		
*Course II	Oct. 13	9		
Tropical and Sub-Tropical Practical—1st and 2nd Year	Oct. 13	11.40		
3rd Year				
GEOLOGY (for Applied Science) (aut. and spring)	Oct. 14	12	Mr Duff	563
FOREST SOIL SCIENCE (School of Agriculture : 3 terms)	Oct. 13	2	{ Dr A. M. Smith }	{ 615 }
CHEMISTRY OF FOREST PRODUCTS (aut. and spr.)	Oct. 19	2		
FOREST BOTANY (Forestry Department : autumn and spring)	Oct. 16	2.30	{ Mr Cousens }	{ 615 }
TROPICAL AND SUB-TROPICAL FOREST TREES :—				
Systematic Course (summer)	Apr. 19			
FOREST ENGINEERING (Forestry Department : aut. and spring)	Oct. 13	9	Mr Harrison	615
SURVEYING (summer)	Apr. 20	10.30	Mr Finlayson	616
FOREST PATHOLOGY (Forestry Department : autumn and spring)	Oct. 13	2	Mr Cousens	616
FOREST ZOOLOGY (Forestry Department : autumn and spring)	Oct. 15	12	Mr Gifford	616
HONOURS COURSE :—				
FORESTRY (Forestry Department) :—				
1. Silviculture	{	Oct. 13	{ Prof. Anderson and Lecturers }	{ 616- 618 }
2. Forest Management and Management Plans				
3. Forest Protection				
4. Forest Economics and Accounting				
5. Forest Utilisation				
FOREST SOIL SCIENCE (School of Agriculture)			Dr A. M. Smith	{ 616- 618 }
ADVANCED ECONOMIC PATHOLOGY (Forestry Department)			Mr Cousens	
ADVANCED FOREST ZOOLOGY (Forestry Department)			Mr Gifford	
TROPICAL AND SUB-TROPICAL FOREST TREES			Mr Cousens	

For Botany see under Pure Science.

Table of Courses

Mining ¹

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
MINING (Mining Department) :—				
Mining I	Oct. 16	10	Prof. McAdam and Lecturers	625-626
Mining II (autumn and spring)	Oct. 13	11		
Mining III (summer)	Apr. 19	9		
Mining IV (autumn and spring)	Oct. 14	9		
Mining Plant (autumn and spring)	Oct. 19	10		
Mine Surveying I (aut. and spr.)	Oct. 15	2		
Mine Surveying II (aut. and spr.)	Oct. 19	11	Dr Howie Dr Sandilands	627
Oil Mining (autumn and spring)	Oct. 16	9		
Metallurgy	Oct. 13	1	Prof. Stewart	562
Assaying	Apr. 19	10		
Geology	Oct. 14	2		
Economic Geology	Oct. 13	2		

Chemical Technology

COURSES	Day of Opening	Hour	Professors and Lecturers	See also page
CHEMICAL TECHNOLOGY :—				
I Lectures	Oct. 14	11	Prof. Denbigh and Lecturers	634
I Laboratory				
IIa and IIb Lectures				
III Research project				
ENGINEERING :—				
A Lectures and Drawing	Oct. 14	10	Professor Arnold and Lecturers	633
B Lectures and Laboratory	Oct. 13	11		
TECHNICAL MATHEMATICS :—				
Ic	Oct. 13	12	{ Dr L. M. Brown, and Lecturers }	633
Iic	Oct. 13	11		
BUSINESS ORGANISATION AND ELEMENTARY ACCOUNTING :—	Oct. 14	12	{ Prof. Anderson, Prof. Hunt and Lecturers }	633

¹ For other subjects see under Pure Science and Engineering.

Faculty of Science

Admission to the Faculty of Science

The Dean may be consulted by appointment at the Chemistry Department, The King's Buildings, West Mains Road. All letters for his personal attention should be sent to that address.

Prospective entrants to the Faculty of Science should consult the Programme of Admission to the University from which the following information has been abstracted.

Attestation of Fitness.—Every person wishing to begin a graduation curriculum must obtain an Attestation of Fitness (Programme of Admission, p. 3).

Further Entrance Qualifications.—The Attestation of Fitness is a necessary pre-requisite but may not be sufficient to secure admission. For admission to degree courses in Pure Science or Applied Science entrants should have obtained, as part of a normal minimum qualification, passes in Mathematics, Physics and Chemistry on the higher standard in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. In exceptional cases, for admission to degree courses in Pure Science, the requirement of Higher Physics and Chemistry may be relaxed provided outstanding qualifications are offered in other subjects. Besides these general requirements for admission to degree courses, special entrance qualifications are required for the following classes: Astronomy, Chemistry, and Meteorology (see Programme of Admission, p. 8).

Application for Admission.—Prospective entrants must apply for admission to the Faculty by 31st May on forms to be obtained from the Matriculation Office, Old College, or the Faculty Office, The King's Buildings, West Mains Road.

Non-Graduation Students.—Prospective entrants as non-graduation students in the Faculty of Science must apply to the Faculty on forms to be obtained from the Matriculation Office, Old College, or the Faculty Office, The King's Buildings, West Mains Road.

Admission of Students from other Universities¹

1. Undergraduates who have attended courses and passed examinations qualifying for graduation in Science in another Scottish University are entitled, subject to the provisions of the relevant ordinances of this University, to count such attendances and passes as qualifying for the corresponding Edinburgh degree, provided that the courses taken in such other university are first courses in their respective subjects.

2. An applicant who has taken a degree at any officially recognised university outside Scotland may, under the Ordinances for degrees in Science of this University, be exempted from one year's attendance at this University. He may also be exempted from passing the corresponding degree examinations for the degree of B.Sc. of this University, except in the case of the degree in Engineering, provided that the Faculty of Science is satisfied that the standard of the course or courses in respect of which such exemption is applied for, and of his performance therein, is sufficient.

3. An applicant who has attended courses in any officially recognised university outside Scotland for not less than one year and has passed in such university an Intermediate or First Science examination² for a degree, may be exempted from certain first-year courses for the degree of B.Sc. in this University, provided that he shall present himself for the degree examination in the subjects of such courses in this University and shall pass these examinations, and provided that the Faculty of Science is satisfied that the

¹ Applications for exemptions under these regulations will be considered separately on their merits. Applications should be sent to the Matriculation Office, with supporting evidence, on or before 1st April in the academical year preceding the applicant's admission.

² A pass in an Intermediate examination of an Indian university does not exempt from attendance at any courses for the Ordinary M.A. degree or the B.Sc. in Pure Science.

Directors of Studies

standard of the course or courses in respect of which such exemption is applied for, and of his performance therein, is sufficient.

The Heriot-Watt College is now affiliated to the University. Under the terms of the affiliation, the University recognises, as qualifying for the degree of B.Sc. in Engineering (Electrical and Mechanical), Chemical Technology, and Mining, courses taken at the Heriot-Watt College.

Procedure after Acceptance for Admission

Graduation Students of ALL years must consult their Directors of Studies before the beginning of the session on one of the days stated below.

Students resident in or near Edinburgh are particularly requested to consult their Directors as early as possible during their interviewing periods.

During the session they may consult their Directors at any time, and must see them before applying for special privileges.

A student who desires to change his type of curriculum, and hence his Director of Studies, must consult his original Director about the change.

Graduation Students—First Year.—Every first-year student must have with him (a) his Attestation of Fitness, and (b) the letter showing that he has been accepted for admission to the Faculty. He must obtain (a) his Director's approval of the proposed curriculum, and (b) a pass to be presented to the Accountant's Office (see pp. 532-3) for the classes to be taken.

Graduation Students—Second and Later Years—must fill up a Schedule of Information each year, showing the classes taken during the preceding sessions and the Degree Examination results obtained.

Non-Graduation Students.—Non-graduation students in the Faculty of Science after acceptance must consult the appropriate Director of Studies in order to obtain his approval of the classes they wish to attend.

Non-graduation students who obtain certificates of due performance in classes prescribed by the Director of Studies will be admitted to the corresponding Degree examinations, but not for the purpose of qualifying for a Degree of this University. Non-graduation students wishing to present themselves for Degree examinations must make entry at the Matriculation Office on the appropriate date (p. 533).

Directors of Studies

Dates and Times for Interviews—October 1959

APPLIED SCIENCE		10 a.m.-1 p.m.	2.30 p.m.-4.30 p.m.
AGRICULTURE—		Students of all years	
Dr J. E. Gordon,	Honours and Ordinary		
Agriculture Department,	Degrees, Diploma —	6th, 7th, 8th, 9th	6th, 7th, 8th, 9th
West Mains Road	Rural Science . . .	October	October
TECHNOLOGICAL SCIENCE—		Students of all years	
Dr D. M. Wilson,	Honours and Ordinary	5th, 6th, 7th, 8th,	5th, 7th, 8th, 9th
Heriot-Watt College,	Degrees	9th October	October
Chambers Street			
ENGINEERING AND MINING—		1st year only	2nd and later years
Mr Patterson,	Honours and Ordinary		
Engineering Department,	Degrees, Diplomas —		
Mayfield Road	Electronics and Radio,	5th, 6th, 7th, 8th,	5th, 7th, 8th, 9th
	Applied Dynamics . .	9th October	October
FORESTRY—		Students of all years	
Dr C. J. Taylor,	Honours and Ordinary	9 a.m.-12 noon	
Forestry Department,	Degrees, Diploma—	5th, 6th, 7th, 8th,	5th, 7th, 8th, 9th,
George Square	Forestry	9th, 12th October	12th October

Faculty of Science

Directors of Studies

Dates and Times for Interviews—October 1959

PURE SCIENCE		10 a.m.-1 p.m.	2.30 p.m.-4.30 p.m.
		Students of all years	
Dr Bolam, Chemistry Department, West Mains Road	Honours—Chemistry . . .	5th, 6th, 7th, 8th, 9th October	5th, 6th, 7th, 8th, 9th October
		1st year only	2nd and later years
Mr Sillitto, Physics Department, Drummond Street	Honours—Physics . . .	5th, 6th, 7th, 8th, 9th October	5th, 7th, 8th, 9th October, and 10 a.m.-1 p.m. and 2.30-4.30 p.m. on 12th October
		Students of all years	
Mr Duff, Geology Department, West Mains Road	Honours—Geology, Ordinary Degrees—Physical Science	5th, 6th, 7th, 8th, 9th, 12th October	5th, 7th, 8th, 9th, 12th October
		1st year only	2nd and later years
Mr Friend, Zoology Department, West Mains Road	Honours and Ordinary Degrees — Biological Sciences. Combined Degrees—Pure Science and Medicine. Diplomas — Animal Genetics and Biology . . .	5th, 6th, 7th, 8th, 9th October	5th, 7th, 8th, 9th October
		Students of all years	
Mr Nisbet, Mathematical Physics Department, Roxburgh Street	Honours — Mathematical Science, Mathematical Physics, Natural Science (Mathematics with Genetics) and Combined Degrees — Arts and Science . . .	9.30 a.m.-12.30 p.m. 5th, 6th, 7th, 8th, 9th, 10th, 12th October	5th, 7th, 8th, 9th, 12th October

Unsatisfactory Progress

Attention of students is drawn to the fact that, if they fail to make satisfactory progress in any year, they may be required by the Senatus to discontinue attendance on classes.

Cases normally regarded as unsatisfactory include :—

- (a) First year students who, by the end of their first session of attendance at the University, have failed to gain a pass in the Degree examination in at least one of the courses approved by a Director of Studies.
- (b) Students admitted to courses of study leading to a Pure Science degree who
 - (i) by the end of their second session of attendance at the University have not passed the degree examinations in at least three courses approved by a Director of Studies;
 - (ii) by the end of their third session of attendance at the University have not passed the Degree examinations in at least five courses approved by a Director of Studies.
- (c) Students admitted to courses of study leading to degrees in the Applied Sciences who have not passed a prescribed Degree examination within two years of first admission to the relevant course, where such examination is normally taken within one year of first admission to the course.

B.Sc. Regulations (Pure Science)

Students are advised to consult their Director of Studies with respect to additional regulations made by individual departments regarding unsatisfactory progress.

Advice on the Choice of Curricula

Students who hope to become teachers under the Scottish Education Department should consult the section under the above heading in the Faculty of Arts Programme.

German Tutorial Course

Dr FURNESS, Lecturer

Mon. and Thurs. at 5 in Minto House during the three terms. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary, but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th ed. Oliver and Boyd).

The Nature of Knowledge

Dr BROADIE

About twelve lectures at times to be arranged to suit students of different Faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (Oxford).

This course will be held in 1959-60. Those interested should apply to Dr F. Broadie.

Scientific Russian Course

Mr D. WARD, Lecturer

This course is intended to give students sufficient knowledge of Russian to enable them to read technical and scientific matter in Russian. The class is open to graduates only and meets once a week for 3 terms at a time to be arranged.

The Poultry Research Centre

The Poultry Research Centre, of the Agricultural Research Council, at King's Buildings, West Mains Road (under the direction of Dr Alan W. Greenwood, Research Fellow), provides animal material and laboratory facilities to qualified investigators and graduates proceeding to a research degree at the University. Members of the staff are engaged on research with the fowl in genetics, biochemistry, physiology, pathology, with special reference to cancer and allied conditions, and animal behaviour.

FEES

NOTE.—Students who were matriculated prior to 1st October 1956 and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations". Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given below.

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Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee, for tuition and one diet of examination, for the degree of B.Sc. is £55. Students combining the ordinary degree of M.A. with the B.Sc. degree pay an annual fee of £35 in the first, second and third year and an annual fee of £55 in each subsequent year provided the M.A. degree is taken first; for an Honours M.A. combined with the B.Sc. degree an annual fee of £35 is paid in the fourth year and an annual fee of £55 in each subsequent year. For the combined degrees of B.Sc. (Hons.), M.B., Ch.B., six annual fees of £60 and one annual fee of £55, for the year devoted solely to the study of the science subject, or two annual fees of £55 in the case of a student studying for the B.Sc. with Honours in Biochemistry, are exigible. For the combined degrees of B.V.M. & S., B.Sc. Hons., five annual fees of £60 and one annual fee of £55 are exigible.

The fee for each Diploma in the Faculty of Science is £55.

A fee of £3 is exigible in respect of late payment of the annual and diploma fees.

The single-class fee, for tuition and one diet of examination, for non-graduating students attending one class only is £5 for a one-term class, £8 for a two-term class, and £10 for a three-term class, but for a two-term or three-term class which meets on fewer than thirty occasions the fee is £5. A practical class counts as a separate class except when it is taken in conjunction with the theoretical course in the same subject in which case the combined fee for the theoretical and practical classes is £7, 10s., £12, and £15 for classes of one, two and three terms respectively. Non-graduating students taking more than one class are required to pay the annual fee.

Laboratory deposits, refunded at the end of the course less a deduction for breakages, are exigible in the following classes: Microscopic Anatomy £1; Neuroanatomy £1; Physiology £1, 10s.; Biochemistry £1, 10s.; Chemistry I £3; Chemistry II, III and IV £5; Forest Chemistry £1; Agricultural Chemistry £1, 10s.

The re-examination fee for subjects of the B.Sc. degree is £1, 10s. per subject. The re-examination fee for the Diploma in Animal Genetics is £5.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November, at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November, and after at the Matriculation Office, Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon, on Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

Fees

All degree and diploma students are required to submit the following documents, duly completed :—

- Matriculation Form A
- Matriculation Form B and Certificate of Attestation of Fitness (on first matriculation only)
- Form of Account for fees (where these are payable by local authority or other public body)
- Director of Studies' Note of prescribed classes
- X-ray Certificate
- Carnegie Trust Coupon (if any)

Matriculation Forms and the Form of Account for fees are available at the place of enrolment. For radiological examination see Programme of Admission, p. 10.

Non-graduating students enrolling for obligatory classes in connection with their course of study do not require to submit a Director of Studies' Note of prescribed classes.

Non-matriculated students paying an entrance fee of £1 and taking classes marked with an asterisk on the table of courses require to submit

- Entrance Form C
- Enrolment Form
- X-ray Card.

Students who require evidence of enrolment in order to obtain payment of their Grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree and Diploma Examinations

Entries for degree and diploma examinations are received at the Matriculation Office, The Old College, from 10-12.30 and 2-4 during term and from 10-12.30, except Saturdays, during the summer vacation, on the following dates :—

March-April degree examinations :—	1960
B.Sc. in Pure Science, Agriculture and Forestry	Feb. 23
B.Sc. in Engineering and Mining	Feb. 24
May degree examinations :—	
B.Sc. in Mining	April 22
May-June degree examinations :—	
B.Sc. in Pure Science	May 16 and 17
B.Sc. Second and Final examinations in Engineering, and Second, Third and Final examinations in Mining	May 18
B.Sc. Second and Final examinations in Forestry and Second, Third, and Final examinations in Chemical Technology and Agriculture . .	May 19
B.Sc. First examinations in Agriculture, Engineering, Forestry, Mining, and Chemical Technology and all diplomas	May 20
September-October degree examinations . .	Aug. 19

Candidates for examination who do not enter their names on or before the advertised date may be allowed, in exceptional circumstances, to make a

Faculty of Science

late entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry.

Degree and diploma candidates for examination must be matriculated for the academic year in which the examination falls. On entering for an examination a student must present his matriculation card. He must also show, at the same time if possible or at least before the day of the examination, his class certificates. These certificates are valid for the corresponding degree examinations of the year in which they are issued and of the year following; thereafter they will not admit to a degree examination without the special permission of the Dean. The stamping of examination cards with the words "Certificates examined" gives the candidate admission to the examination. A candidate must enter for each examination at which he wishes to appear, and must state the subject or subjects in which he wishes to be examined.

If a degree or diploma candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may, on good cause shown, be allowed to appear at a subsequent diet without payment of the re-examination fee. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch) Edinburgh".

Graduation

Every student who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year if he has not already done so, must present the certificates of degree passes, and must pay £1 for registration as a member of the General Council if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering for graduation, graduands must show their final inclusive fee cards and their current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown. Men graduands for the degrees of B.Sc., M.Sc., Ph.D., and D.Sc., are requested to appear in black or dark-coloured clothes, white starched collars, and white bow neckties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown for the B.Sc. degree is one of black silk or stuff with long sleeves. The hood is black silk, lined with green silk, and bordered with white fur. For the academic dress for other degrees, see UNIVERSITY CALENDAR "Academic Costume." There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation

The Sponsio Academica at graduation is:—"Nos qui nomina subsignamus siue baccalaureatus siue magisterii siue doctoratus titulo iamiam donandi spondemus nos in omni debita gratitudinis officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum perseueraturos."¹

¹ TRANSLATION:—"We, the undersigned, upon whom the degree of bachelor or master or doctor is now to be conferred promise that we will to our latest breath abide in all due loyalty to the University of Edinburgh."

Department of Pure Science
DEGREE OF BACHELOR OF SCIENCE¹

Preliminary Qualifications and Admission to Classes

I. and II. See Programme of Admission, pp. 3-9.

Ordinary Degree of Bachelor of Science

III. (1) Candidates for the Ordinary degree of Bachelor of Science must, in the course of not less than three academical years, attend not less than seven courses of instruction (which courses, with the exception of Mathematics and Mathematical Physics, shall include practical work) in not less than four and not more than six of the subjects prescribed under sub-section (2) of this section, and pass the examinations prescribed in section VI.

(2) The subjects of study shall be as follows :—GROUP A—1. Mathematics ; 2. Mathematical Physics ; 3. Astronomy ; 4. Physics ; 5. Chemistry ; 17. Meteorology. GROUP B—6. Geology ; 7. Botany ; 8. Zoology ; 9. Anatomy (including Elementary Physical Anthropology) ; 10. Physiology ; 11. Bacteriology ; 12. Psychology ; 13. Pathology ; 14. Biochemistry ; 15. Genetics ; 16. Pharmacology.

(3) Candidates are required to take at least one course in Physics, or one course in Chemistry, and at least one course in a subject of Group B.

IV. (1) Four of the seven courses must be taken in the University of Edinburgh.

(2) Three of the courses may be taken in other universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science ; provided that these courses shall be not other than first courses in their respective subjects, except in such cases as the University Court may otherwise decide, after consultation with the Senatus ; and provided that the fees for attendance at an approved institution or under a recognised teacher in Edinburgh shall not be less than the fees exigible for the corresponding courses in the University.

(3) A student who, during one or more academical years, has given attendance on classes recognised as qualifying for graduation in Science in any one or more of the other Scottish Universities, and who shall have passed any of the examinations prescribed in such other university, may be exempted from attendance and examination in the first courses in not more than three corresponding subjects in Edinburgh, and may, by permission of the Senatus, count one year of such attendance in another Scottish University as one year of attendance in the University of Edinburgh for the purposes of section III, sub-section (1).

Further, the Senatus may grant, under such conditions as they may from time to time prescribe, either (1) exemption from attendance, but not from examination, or (2) exemption from both attendance and examination, in first courses in not more than three subjects, to students who have studied those subjects in universities or institutions other than the Scottish Universities.

V. (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction partial courses of not less than one term's duration, and three such partial courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

¹ University Court Ordinance No. 68. For the degrees of D.Sc. and M.Sc. see Programme of Special Study and Research.

Faculty of Science

VI. (1) Degree examinations will be held in each course in each subject of section III, sub-section (2). Candidates may present themselves at any examination in any course after attending the corresponding course in the subject professed : provided that no candidate, without express permission of the Senatus, may present himself at the examination in a higher course in any subject until he shall have passed the examination in the lower course or courses for the same subject.

(2) A candidate shall not be deemed to have attended a course as part of the curriculum for the degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the course.

VII. The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power to :—(a) introduce additional subjects into the curriculum ; (b) determine that particular subjects shall, for the purposes of examination, be subdivided or combined ; (c) determine the selection, order, and grouping of the various subjects studied ; (d) fix the standards of the degree examinations, and the conditions of admission thereto : provided always that the University Court shall communicate to the General Council all such regulations, and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

VIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Ordinary degree of Bachelor of Science on payment of the fees required, and shall receive a diploma wherein shall be set forth the subjects in which they have passed.

Degree of Bachelor of Science with Honours

IX. The degree of Bachelor of Science may be taken with Honours, under the following conditions :—

(1) The candidate must have attended not less than seven courses, in not less than three and not more than five of the subjects specified in III (2),¹ and have passed the examinations in these courses. The restrictions in III (3) are not operative upon candidates who are proceeding to Honours, but the provisions of IV (2 and 3) are applicable to such candidates.

(2) Subsequently to passing the examinations specified in sub-section (1) of this section, the candidate must have, for at least one year, pursued advanced studies in the University of Edinburgh in one of the schools named in sub-section (5), the choice of the school having been approved by the Faculty and the work having been done to the satisfaction of the Professors or Lecturers concerned.

(3) Provided that no candidate shall be approved for Honours in the school of Mathematical Science who has already been a candidate for Honours in Mathematics and Natural Philosophy in the Faculty of Arts.

(4) A candidate who desires to obtain Honours in the school of Pathology, in addition to having passed in the subjects specified in sub-sections (1) and (2) of this section, must have also passed the Third Professional examination for the degree of M.B., Ch.B. in the University of Edinburgh or another Scottish University.

¹ Candidates for Honours in Anthropology may include the subjects Prehistoric Archaeology, Social Anthropology and Geography.

B.Sc. Regulations (Pure Science)

(5) Subject to the foregoing regulations, candidates may obtain Honours in any of the following schools:—(a) Mathematical Science (*i.e.* Mathematics with Physics or Mathematics with Mathematical Physics)¹; (b) Physics; (c) Chemistry; (d) Geology; (e) Botany; (f) Zoology; (g) Anatomy; (h) Physiology; (i) Bacteriology; (j) Anthropology; (k) Pathology; (l) Psychology; (m) Pharmacology; (n) Biochemistry; (o) Genetics; (p) Biology (*i.e.* Botany with Zoology, or Botany with Genetics, or Zoology with Genetics, or Physiology with Genetics, or Bacteriology with Zoology, or Bacteriology with Chemistry); (q) Natural Science (*i.e.* Botany with Geology, or Zoology with Geology, or Mathematics with Genetics); (r) Physical Science (*i.e.* Physics with Chemistry, or Physics with Geology, or Chemistry with Geology); (s) Mathematical Physics.

(6) In each school there shall be three grades of Honours, to be denominated respectively the first, second, and third class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(7) The award of grades of Honours shall be based on the candidate's performance in such examinations or other tests as shall be prescribed by the Senatus with the approval of the University Court.

(8) A candidate may not present himself for re-examination for Honours in any one school in which he has been examined.

(9) A candidate who has failed to be placed in any class may be recommended by the examiners for the Ordinary degree.

(10) A candidate who has obtained Honours in one school may, under regulations prescribed by the Senatus, with the approval of the University Court, present himself for examination in another school.

(11) The Honours examination in each subject shall include practical or laboratory work; but it shall be in the power of the Faculty of Science to accept, in lieu of the practical examination, sufficient evidence that the candidate has done adequate experimental or research work in the subject professed by him.

(12) The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power to (a) add to the Honours schools named in sub-section (5) of this section, (b) prescribe the selection, order, and grouping of subjects of sub-section (1) of this section, required for admission to examination in any Honours school: provided always that the University Court shall communicate to the General Council all such regulations, and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

X. (1) Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance for a degree with Honours, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science with such Honours as may have been obtained by them, and shall receive a diploma setting forth the subjects in which they have passed and the subject in which they have received Honours.

(2) The diploma of candidates who obtain Honours in Mathematical Science shall set forth the branch or branches of Mathematical Science in which they have obtained credit in respect of advanced studies.

XI. Subject to the provisions prescribed in IX (2), a candidate who has already graduated as a Bachelor of Science in Pure Science may present himself for examination in any Honours subject. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours subject in which he has presented himself and the class he has obtained in the subject.

¹ For the purpose of these regulations courses in Statistics and Theoretical Astronomy may be regarded as comprised within the subjects constituting this school.

Faculty of Science

Examiners

XIV. The examiners for graduation in Science shall be the Professors in the University, whose subjects qualify for graduation in Science, together with such Lecturers in the University and such additional examiners to be appointed by the University Court as the University Court shall deem necessary. The examinations shall be conducted under regulations framed by the Senatus, subject to the approval of the University Court.

XV. For graduation in Science, no Professor, Lecturer, Assistant, or Demonstrator in the University of Edinburgh shall be appointed as an additional examiner, but, with that exception, the disqualifications contained in section XIX of Ordinance of the Commissioners No. 13, General No. 8, shall no longer apply.

General

XVI. From and after the date at which this Ordinance comes into operation, University Court Ordinance No. XCI (Edinburgh No. 35) (Regulations for certain degrees in Pure Science) is hereby repealed; and any reference made in existing Ordinances applicable to the University of Edinburgh to the said Ordinance No. XCI shall be deemed to refer to this Ordinance: provided always that a student who, at the aforesaid date, had already entered upon his course of study with a view to graduation in Science in any of the Scottish Universities under the regulations in force at the time in such University, may complete his course and become a candidate for the degree of Bachelor of Science in Pure Science in the University of Edinburgh in conformity with the regulations made by or under the said Ordinance; but if any such student elect to complete his course with a view to graduation under the regulations made by or under this Ordinance, the Senatus shall have power to determine the conditions under which the courses of study already pursued and the examinations already passed by him may be accepted as equivalent to the courses and examinations prescribed by or under this Ordinance.

XVII. The degrees of Bachelor of Science in Pure Science and Doctor of Science conferred under this Ordinance shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*, [except under the provision contained in University Court Ordinance No. LXXXVII (Edinburgh No. 33) (Regulations as to Offices of Reader and Senior Lecturer, etc.), Section X.]

Additional B.Sc. Regulations (Pure Science)

Additional B.Sc. Regulations (Pure Science)

Typical Curricula¹

The Roman numbers I, II, III, etc., indicate the years in the curricula.

I.—Curricula leading to an Ordinary degree only

ORDINARY DEGREE WITH PHYSICAL LEANING

A—I. Mathematics 1; Mathematical Physics 1; Physics 1. **II.** Mathematics 2; Chemistry 1. **III.** Physics 2 or Astronomy 1 or Meteorology; Group B subject.

B—I. Mathematics 1; Chemistry 1; Physics 1. **II.** Mathematics 2; Chemistry 2. **III.** Physics 2 or Astronomy 1 or Meteorology; Group B subject.

C—I. Physics 1; Chemistry 1; Mathematics 1. **II.** Physics 2; Chemistry 2. **III.** Two Group B subjects.

ORDINARY DEGREE WITH BIOLOGICAL LEANING

D—I. Mathematics 1; Physics 1; Chemistry 1. **II.** Chemistry 2; Zoology 1 or Botany 1. **III.** Geology 1; Zoology 1 or 2 or Botany 1.

E—I. Mathematics 1; Physics 1; Chemistry 1. **II.** Zoology 1; Botany 1. **III.** Geology 1; Zoology 2 or Botany 2.

F—I. Botany 1; Chemistry 1; Physics 1. **II.** Botany 2; Zoology 1. **III.** Geology 1; Zoology 2.

II.—Curricula qualifying for an Ordinary degree in three years, and at the same time leading to an Honours degree in the fourth year in the school indicated.

Mathematical Science.² **I.** Mathematics 1; Mathematical Physics 1; Physics 1. **II.** Mathematics 2; Mathematical Physics 2; (Group B subject). **III.** Mathematics 3; Group B subject (if not already taken).

Physics.³ **I.** Physics 1; Mathematics 1; Mathematical Physics 1. **II.** Physics 2; Mathematics 2. **III.** Physics 3; Group B subject.

Chemistry. **A—I.** Chemistry 1; Physics 1; Mathematics 1. **II.** Chemistry 2; Physics 2 or Mathematics 2. **III.** Chemistry 3; Geology 1 or Psychology 1 or Botany 1.

Chemistry. **B—I.** Chemistry 1; Physics 1; Mathematics 1. **II.** Chemistry 2; Physics 2 or Bacteriology 1 or Zoology 1. **III.** Chemistry 3; Biochemistry 1.⁴

Chemistry. **C—I.** Chemistry 1; Physics 1; Mathematics 1. **II.** Chemistry 2; Geology 1. **III.** Chemistry 3; Geology 2.

¹ Some of these curricula may not be possible as the laboratory accommodation available for certain courses (e.g. in Bacteriology and Biochemistry) is limited; prospective entrants to the Faculty of Science must therefore be guided in their choice of curricula by their Directors of Studies.

² See also p. 550.

³ See also p. 555.

⁴ It is desirable that students proceeding to Biochemistry 1 should have gained a merit certificate in Chemistry 2.

Faculty of Science

Chemistry. D—I. Chemistry 1; Physics 1; Mathematics 1. II. Chemistry 2; Botany 1 or Zoology 1 or Bacteriology 1 or Geology 1. III. Chemistry 3; Botany 1 or Geology 1 or Bacteriology 1 or Botany 2.

Geology. A—I. Geology 1; Physics 1; Zoology 1. II. Geology 2; Chemistry 1 or Zoology 2. III. Geology 3; Chemistry 2 or Botany 1.

Geology. B—I. Geology 1; Physics 1; Mathematics 1. II. Geology 2; Chemistry 1. III. Geology 3; Chemistry 2.

Geology. C—I. Geology 1; Chemistry 1; Physics 1 or Mathematics 1. II. Geology 2; Chemistry 2. III. Geology 3; Zoology 1.

Geology. D—I. Geology 1; Chemistry 1; Botany 1. II. Geology 2; Chemistry 2 or Botany 2. III. Geology 3; Zoology 1.

Physical Science. A—Physics with Geology¹. I. Mathematics 1; Physics 1; Chemistry 1. II. Mathematics 2; Physics 2. III. Chemistry 2; Geology 1. IV. Physics 3; Geology 2.

Physical Science. B—Chemistry with Geology. I. Mathematics 1; Physics 1; Chemistry 1. II. Physics 2; Mathematics 2 or Botany 1 or Zoology 1. III. Chemistry 2; Geology 1. IV. Chemistry 3; Geology 2.

Botany. A—I. Botany 1; Chemistry 1; Physics 1 or Mathematics 1. II. Botany 2; Chemistry 2. III. Botany 3; Zoology 1.

Botany. B—I. Botany 1; Physics 1; Chemistry 1. II. Botany 2; Zoology 1. III. Botany 3; Zoology 2.

Zoology. A—I. Zoology 1; Chemistry 1; Physics 1 or Mathematics 1. II. Zoology 2; Botany 1. III. Zoology 3; Botany 2 or Genetics 1.

Zoology. B—I. Zoology 1; Chemistry 1; Botany 1. II. Zoology 2; Botany 2 or Geology 1. III. Zoology 3; Botany 2 or Geology 1.

Zoology. C—I. Zoology 1; Botany 1; Chemistry 1 or Physics 1. II. Zoology 2; Botany 2 or Physiology 1². III. Zoology 3; Botany 2 or Geology 1.

Zoology. D—I. Zoology 1; Botany 1; Chemistry 1. II. Zoology 2; Physiology 1². III. Zoology 3; Bacteriology 1 or Genetics 1.

Zoology. E—I. Zoology 1; Physics 1; Chemistry 1. II. Zoology 2; Physiology 1². III. Zoology 3; Physiology with Pharmacology³ or Genetics 1.

Biology. A—Botany with Zoology. I. Botany 1; Physics 1; Chemistry 1. II. Geology 1; Zoology 1. III. Botany 2; Zoology 2. IV. Botany 3; Zoology 3.

Biology. B—Zoology with Genetics. I. Mathematics 1; Botany 1; Chemistry 1. II. Zoology 1; Physiology 1². III. Zoology 2; Botany 2. IV. Zoology 3; Genetics 1.

¹ See also p. 555.

² Students proceeding to Physiology 1 must have attended Chemistry 1. Physics 1 is also desirable.

³ Students proceeding to Physiology with Pharmacology must have attended both Chemistry 1 and Physics 1.

Additional B.Sc. Regulations (Pure Science)

Biology. C—Zoology with Genetics. I. Chemistry 1; Zoology 1; Physics 1. II. Chemistry 2; Physiology 1¹. III. Biochemistry 1²; Zoology 2. IV. Zoology 3; Genetics 1.

Physiology.—I. Physics 1; Zoology 1; Chemistry 1. II. Physiology 1¹; Zoology 2. III. Physiology with Pharmacology³; Zoology 3 or Botany 1.

Bacteriology. A⁴.—I. Mathematics 1; Chemistry 1; Physics 1. II. Chemistry 2; Botany 1 or Zoology 1. III. Biochemistry 1²; Bacteriology 1.

Bacteriology. B—I. Physics 1; Zoology 1; Chemistry 1. II. Botany 1; Zoology 2. III. Bacteriology 1; Zoology 3 or Botany 2.

Bacteriology. C—I. Physics 1; Botany 1; Chemistry 1. II. Zoology 1; Botany 2. III. Bacteriology 1; Botany 3 or Zoology 2.

Bacteriology. D⁴.—I. Chemistry 1; Physics 1, Zoology 1. II. Chemistry 2; Physiology 1¹. III. Biochemistry 1²; Bacteriology 1.

Pharmacology.⁴—I. Chemistry 1; Physics 1; Zoology 1. II. Chemistry 2; Physiology 1.¹ III. Physiology with Pharmacology³; Bacteriology 1.

Psychology.—I. Physics 1; Zoology 1; Chemistry 1. II. Psychology 1; Zoology 2 or 3. III. Psychology 2; Physiology 1¹. IV. Psychology 3.

Biochemistry.—I. Chemistry 1; Physics 1; Zoology 1; Mathematics (special course). II. Chemistry 2; Physiology 1¹. III. Chemistry 3; Biochemistry 1.² IV. Biochemistry 2.

Genetics.—Any curriculum satisfying the conditions for the Ordinary B.Sc. degree and including Genetics 1 can be followed in the fourth year by Genetics 2 (Honours Course).

III.—Honours curricula which do not qualify for an Ordinary degree after three years

Mathematical Science.⁵ **A—Mathematics with Physics.** I. Mathematics 1; Physics 1; Mathematical Physics 1. II. Mathematics 2; Physics 2; Mathematical Physics 2. III. Mathematics 3, Part of Mathematical Physics 3. IV. Physics 3; Special Subjects, chosen from the fields of Mathematics and Statistics.

Mathematical Science.⁵ **B—Mathematics with Mathematical Physics.** I. Mathematics 1; Mathematical Physics 1; Physics 1 or other subject. II. Mathematics 2; Mathematical Physics 2; Astronomy or other subject. III. Mathematics 3; Mathematical Physics 3. IV. Special Subjects, chosen from the following fields:—Mathematics, Mathematical Physics, Statistics, Theoretical Astronomy.

Mathematical Physics.⁶ I. Mathematics 1; Mathematical Physics 1; Physics 1. II. Mathematics 2; Mathematical Physics 2; Physics 2. III. Mathematical Physics 3; Selected Subjects in Physics and Mathematics. IV. Special Subjects, chosen from the fields of Mathematical Physics and Theoretical Astronomy.

¹ Students proceeding to Physiology 1 must have attended Chemistry 1; Physics 1 is also desirable.

² It is desirable that students proceeding to Biochemistry 1 should have gained a merit certificate in Chemistry 2.

³ Students proceeding to Physiology with Pharmacology must have attended both Chemistry 1 and Physics 1.

⁴ When a third year course in Biochemistry 1 or Physiology with Pharmacology or Bacteriology 1 follows preliminary courses in Chemistry 1 and 2 it may, for the purposes of Section IX (1) of Ordinance No. 68, (p. 535) be counted as an extension of the subject Chemistry and not as an additional or 6th subject.

⁵ See also p. 550.

⁶ See also p. 551.

Faculty of Science

Physics. A¹—I. Physics 1 ; Mathematics 1 ; Mathematical Physics 1. II. Physics 2 ; Mathematics 2 ; Mathematical Physics 2. III. Physics 3. IV. Physics 4 or Physics 4 with Theoretical Physics² or Physics 4 with Astrophysics.³

Physics. B¹—I. Physics 1 ; Mathematics 1 ; Chemistry 1. II. Physics 2 ; Mathematics 2 ; Mathematical Physics 1⁴. III. Physics 3. IV. Physics 4.⁴

Physical Science. C—Physics with Chemistry⁵. I. Mathematics 1 ; Physics 1 ; Mathematical Physics 1. II. Mathematics 2 ; Chemistry 1. III. Physics 2 ; Chemistry 2. IV. Physics 3 ; Chemistry 3. (This fourth year is not possible with present time-table.)

Geology. I. Geology 1 ; Botany 1 ; Zoology 1. II. Geology 2 ; Botany 2 ; III. Geology 3 ; Zoology 2. IV. Geology 4.

Botany. C—I. Botany 1 ; Chemistry 1 ; Zoology 1. II. Botany 2 ; Zoology 2. III. Botany 3 ; Zoology 3. IV. Botany 4.

Botany. D—I. Botany 1 ; Zoology 1 ; Geology 1. II. Botany 2 ; Geology 2. III. Botany 3 ; Zoology 2.

Zoology. F—I. Zoology 1 ; Botany 1 ; Geology 1. II. Zoology 2 ; Botany 2 or Geology 2. III. Zoology 3 ; Botany 2 or 3. IV. Zoology 4.

Zoology. G⁶—I. Zoology 1 ; Botany 1 ; Chemistry 1 or Physics 1. II. Zoology 2 ; Agricultural Zoology ; Agricultural Botany and Mycology. III. Zoology 3 ; Tropical Entomology and Parasitology (D.T.M. and H.) ; Veterinary Entomology and Parasitology (D.T.V.M.) ; Laboratory and Field Work each Thurs. (full day) during summer term. IV. Zoology 4 (which may include Advanced Economic Entomology).

Anthropology. A—Physical Anthropology. I. Anatomy 1 ; Zoology 1 ; Geology 1. II. Anatomy 2 ; Prehistoric Archaeology 1. III. Anatomy 3 (including Physical Anthropology 1) ; Prehistoric Archaeology 2. IV. Physical Anthropology 2.

Anthropology. B—Prehistoric Archaeology. I. Prehistoric Archaeology 1 ; Anatomy 1 ; Geography 1. II. Physical Anthropology 1 ; Geology 1 ; Advanced Geography (Human). III. Prehistoric Archaeology 2 ; Geology 2 ; Elementary Surveying (one term). IV. Prehistoric Archaeology 3.

Anthropology. C—Social Anthropology. I. Geography 1 ; Social Anthropology 1 ; Psychology 1. II. Prehistoric Archaeology 1 ; Anatomy 1 ; Social Anthropology 2 or Human Geography. III. Prehistoric Archaeology 2 ; Physical Anthropology 1 ; Social Anthropology 2 or Advanced Geography (Human), whichever is not studied in the second year. IV. Social Anthropology 3.

¹ See also p. 555-6.

² Students wishing to offer the option Theoretical Physics in Physics 4 must make application to the Tait Professor of Natural Philosophy before the end of the spring term of their third year. Applications will be considered by the Professor of Natural Philosophy and the Tait Professor, jointly, and decisions given before 1st June in each year.

³ Students wishing to offer the option Astrophysics in Physics 4 must make application to the Professor of Astronomy as soon as possible after completing attendance on the course of lectures on Astrophysics of Physics 3, and the Professor of Astronomy, in consultation with the Professor of Natural Philosophy, will give his decision on each such application not later than one month before the student concerned is due to enter upon his course for Physics 4.

⁴ Students who have suitable entrance qualifications, and who attain a satisfactory standard in the examinations for Physics 1 and Mathematics 1, may, with the permission of the Tait Professor of Natural Philosophy, substitute Mathematical Physics 2 for Mathematical Physics 1. Having passed the examination in Mathematical Physics 2, such students would be eligible subsequently to apply for permission to substitute Physics 4 with Theoretical Physics or Physics 4 with Astrophysics for Physics 4 (see footnotes 2 and 3).

⁵ See also p. 556.

⁶ Candidates for Honours in Zoology with an Economic bias may include the subjects (i) Agricultural Biology (Zoology, Botany, Mycology) and (ii) Entomology and Parasitology (Medical and Veterinary courses and field work).

Additional B.Sc. Regulations (Pure Science)

Natural Science. A—Mathematics with Genetics. I. Mathematics 1 ; Zoology 1 ; another approved subject. II. Mathematics 2 ; Zoology 2. III. Mathematics 3 ; Zoology 3. IV. Special Studies.¹

Natural Science. B—Mathematics with Genetics. I. Mathematics 1 ; two other approved subjects. II. Mathematics 2 ; Mathematical Physics 2 or Zoology 1. III. Mathematics 3 ; Zoology 2. IV. Special Studies.¹

Combined Degrees

The courses for each year for all combined degrees must be approved by the respective Directors of Studies.

ORDINARY B.Sc. AND M.A.

For the combined degrees not more than three full courses common to the two degrees may be used to qualify for the B.Sc. degree. The minimum time for the combined Ordinary degrees is five years.

ORDINARY OR HONOURS B.Sc. AND HONOURS M.A. IN MATHEMATICS AND NATURAL PHILOSOPHY

The degree of M.A. with Honours in Mathematics and Natural Philosophy may not be combined with the degree of B.Sc. with Honours in Mathematical Science. It may be combined with the degree of B.Sc. with Honours in any other school provided the Final Honours examinations for the M.A. and B.Sc. degrees do not include any paper in common. It may be combined with the Ordinary B.Sc. degree if not more than three full courses are used as qualifying for both degrees.²

HONOURS B.Sc. WITH M.B., CH.B. OR B.V.M. & S.

The minimum time for the combined degrees of B.Sc. and M.B., Ch.B. is seven years.³ The Ordinary B.Sc. degree is not available as part of a combined degree to medical undergraduates.

(i) Applications from medical undergraduates to enrol for a combined degree with Honours in Pure Science may be made to the Faculty of Science at any time after the completion of the second year of medical study.

(ii) Permission to enrol will be granted only if the application is supported by testimony from Heads of the Departments of Anatomy and Physiology, and the Head of any other Department in which the undergraduate proposes to pursue Honours studies, that the work of the applicant merits his selection as a candidate for the combined degree.

(iii) The following courses will be recognised for the purpose of the Honours B.Sc. degree in Anatomy or Physiology :—

First Year.—Passes in the First Professional Examination in Physics and Chemistry (3 terms), and in Biology (3 terms) shall be held as equivalent to passes in the First Science Examination in Physics, Chemistry and Zoology.

¹ "Special Studies" means lectures and/or supervised reading in Mathematics, Statistics, Mathematical Biology, Genetics.

² Approval will not be given to a curriculum which includes, in the minimum number of courses counted as qualifying for the Ordinary B.Sc. Degree, more than *three* of the courses Mathematics I, II, III, Physics I, II, III, Mathematical Physics I, II, when the Honours M.A. Degree is of Type A, or of the courses Mathematics I, II, III, Mathematical Physics I, II, III, Physics I when the M.A. Degree is of Type B ; or more than *two* of the above courses, if a course outside the Honours group is counted as qualifying for both Degrees.

³ In the case of a combined degree in Biochemistry eight years is necessary.

Faculty of Science

Second Year.—Anatomy I; Physiology I.

Third Year.—Anatomy (2 terms); Physiology (2 terms) and a satisfactory pass in these subjects in the Second Professional Examination; and in addition a third term (the "transitional" term) which will include partial courses and, for selected students, preliminary work for the Honours year in Anatomy or Physiology. These shall together be recognised as equivalent to full courses in Anatomy II and Physiology II for the purpose of Honours in these subjects.

Fourth Year.—One year of advanced study in Anatomy or Physiology.

(iv) The following course will be recognised for the Honours B.Sc. Degree in Biochemistry:—

First Year. Passes in the First Professional Examination in Chemistry (3 terms), in Physics (2 terms) and in Biology (3 terms) shall be held as equivalent to passes in the First Science Examination in Physics, Chemistry and Zoology.

Second and Third Years. Anatomy (5 terms); Physiology and Biochemistry (5 terms) and a satisfactory pass in these subjects in the Second Professional Examination. During the sixth term students should pursue the "transitional" term in the Medical Curriculum. For the purposes of Honours in Biochemistry a satisfactory pass in the Second Professional Examination together with a satisfactory performance in the "transitional" term shall be recognised as equivalent to full courses in Physiology I and II.

Fourth Year. Chemistry II; Biochemistry I.

Fifth Year. One year of advanced study in Biochemistry.

(v) Medical candidates for the Honours B.Sc. degree in Bacteriology, Pathology, or Pharmacology must have completed four years of the medical curriculum on a satisfactory standard before proceeding to the Honours year of advanced study in the subject selected.

(vi) Applications from medical graduates of the University of Edinburgh to enrol for a Combined Degree with Honours in Pure Science may be made to the Faculty of Science. Permission to enrol will be granted only if the application is supported by testimony from the Dean of the Faculty of Medicine and the Head of the Department in which the graduate proposes to pursue Honours studies, that the work of the applicant merits his selection as a candidate for the Combined Degree. Such candidates may be admitted to a course of one year's duration leading to an Honours Degree in Anatomy, Physiology, Pathology, Pharmacology or Bacteriology.

(vii) The Combined Degree B.V.M. & S. of the University of Edinburgh and Honours B.Sc. may be taken in six years. The ordinary B.Sc. is not available as part of a combined degree to undergraduates studying Veterinary Medicine. Applications from Veterinary undergraduates to enrol for the combined degree with Honours in Pure Science may be made to the Faculty of Science at any time after the completion of the second year of Veterinary study. Permission to enrol will be granted only if the application is supported by testimony from the Dean of the Faculty of Medicine and the Head of the Department in which the candidate proposes to pursue Honours studies, that the work of the applicant merits his selection as a candidate for the combined degree.

Combined Degrees

Courses for Combined Degrees of B.V.M. & S. and Honours B.Sc. will be under the direction of the Head of the Science Department concerned. The course for an Honours Degree in Veterinary Anatomy shall be drawn up by the Head of the Department of Veterinary Anatomy and the Head of the Department of Anatomy in consultation.

(viii) The combined degrees of B.D.S. of the University of Edinburgh and Honours B.Sc. may be taken in seven years. Applications from Dental undergraduates to enrol for the combined degree with Honours in Pure Science may be made to the Faculty of Science at any time after the completion of the second year of Dental study. Permission to enrol will be granted only if the application is supported by testimony from the Dean of the Faculty of Medicine and the Head of the Department in which the student proposes to pursue Honours studies, that the work of the applicant merits his selection as a candidate for the combined degree.

OTHER COMBINATIONS

For any combination of three degrees (not including M.B., Ch.B.) the minimum time is seven years, and for the combination of M.B., Ch.B. with any two other degrees nine years (in special cases the Senatus may relax this regulation requiring a minimum of nine years for the triple degrees).

Exemption from Degree Practical Examinations

Exemption from degree practical examinations may be granted to students who gain merit certificates in their laboratory work in the following courses :--

Anatomy 1 ; Astronomy ; Bacteriology 1 ; Chemistry 1 and 2 ; Geology 1 and 2 ; Physics 1.

Attendance on Higher Course

A student who has failed twice in any subject is not permitted to attend a higher course in that subject without the permission of the teacher.

Honours Degree

Candidates may not proceed to the Final Honours Course in any subject unless they have obtained a merit certificate in the preceding course in that subject, or in the case of combined Honours Degrees, in the courses of their major subjects preceding the final courses unless with the permission of the Professor concerned.

Failure to complete Final Honours Examinations

When a candidate fails to complete the Final Honours examinations for reasons beyond his control (for which written evidence must be produced) the Examiners shall immediately investigate the case and on the basis of the evidence available to them may recommend the award of a Degree or may recommend to Senatus that permission be given for the candidate to appear for examination at the next diet.

Faculty of Science

DIPLOMA IN ANIMAL GENETICS

1. Candidates for the Diploma should be Honours Graduates in a Biological subject or in Mathematics of this or any other approved University, or must otherwise satisfy the Senatus of their fitness to enter upon a Diploma Course.

2. The curriculum for the Diploma shall extend over a period of one Academical Year of whole-time study, and shall include attendance at lectures and practical work as prescribed in paragraph 3. Candidates who are graduates in Mathematics will be required to attend a recognised course in Zoology or Botany unless they are already qualified in one of these subjects.

3. Candidates will take courses selected from Genetics I and II or other related courses, designed to occupy five full days per week throughout the year. Unless the candidate's previous training has included an adequate study of Genetics, the selected courses must include the first term's work for Genetics I. Apart from this requirement, some specialisation will be allowed, and the candidate may be permitted to present a thesis in part fulfilment of the requirements. The selected courses of study must be approved by the Head of the Department and the Director of Studies.

4. An examination will be held twice yearly, in June and September. This will normally consist of four written papers, but students who are permitted to submit theses may be excused one or at most two of these.

5. A successful candidate will be awarded a Diploma, which shall testify to his knowledge of the principles and practice of Animal Genetics and shall specify the courses taken.

DIPLOMA IN BIOLOGY (BOTANY, PHYSIOLOGY, ZOOLOGY AND PHARMACOLOGY)

1. Candidates for the Diploma should be Honours Graduates in Science of this or any other approved University, or must otherwise satisfy the Senatus of their fitness to enter upon a Diploma Course.

2. Diploma students must attend for one Academical Year of full-time study during which the curriculum will include :—

Direct instruction, consisting of appropriate parts of the pre-honours or honours courses in Botany, Physiology, Pharmacology or Zoology, and other such special courses and exercises in individual laboratory or field work as the Professor may direct.

3. The detailed curriculum of each candidate will be planned by the Professor of the Department chiefly concerned in conjunction with the Director of Studies in Biological Science, and approved by the Senatus.

4. A diploma setting forth the subjects in the candidate's curriculum shall be awarded on the attainment of a satisfactory standard in examinations set in the subjects studied and on the merit of any report or review submitted.

5. The fee, including tuition and examination, is £55.

6. Courses for the diploma in Biology begin in October and graduates hoping for admission should make application before 15th May to the Dean of the Faculty of Science, giving details of their qualifications, experience and interests.

Time-Table (Pure Science)

TIME-TABLE OF COURSES (PURE SCIENCE)

Lecture Courses

9-10	10-11	11-12	12-1	2-3	3-4	4-5	5-6
Bacteriology I (Tu., Th. and Fri.) Botany IA (Sat.) Botany II (M.W.F.) Botany III Chemistry I and IV (9.30) Genetics I (9.30) and II (9.5) Geology I (M.W.F.) 9.30 Geology II (Tu. and Th.) 9.30 Geology III, IV (9.30) Physics II, III and IV Physiology I Psychology II (Tu.) Psychology III Zoology IV	Geology II (10.30) and IV Mathematics III Mathematical Physics I Psychology II (Tu. and Th.) Physics IA (Tu. and Th.) Physics IB and IC (M., W. and F.) Psychology I Psychology II (W., Th. and F.)	Anatomy I Biochemistry I (M., W., 1-2) Chemistry II (12.30) Chemistry III Chemistry IA (Tu. and Th.) Physics IB and IC (M., W. and F.) Psychology I Psychology II (W., Th. and F.)	Botany IA (Tu. and Th.) Botany IB (M.W.F.) Chemistry III (Fri.) Economic Geology (Tu. and Th.) Geology I (alternative course) (M., W. F.) Geology II (Tu. and Th. 2-5) Zoology I, II and III (M., W. and F.)	Astronomy I (M. and F.) Biochemistry I (Th.) Elements of Statistics Social Anthropology I Physics IA (F.)	Astronomy I (W.) Prehistoric Archaeology I		

Practical Courses

9-10	10-11	11-12	12-1	2-3	3-4	4-5	5-6
Bacteriology I (Tu. and Th., 10-12) Botany IA (Sat. 10-12) Botany II (M.W.F.) and III (10-12) Chemistry I (10.30-12.30) Geology I and II (10.30) Physics I (B and C) (Tu. or Th. 10-12) Physiology I (10-12)	Bacteriology I (Tu. and Th., 10-12) Botany IA (Sat. 10-12) Botany II (M.W.F.) and III (10-12) Chemistry I (10.30-12.30) Geology I and II (10.30) Physics I (B and C) (Tu. or Th. 10-12) Physiology I (10-12)	Mathematics III Mathematical Physics I Psychology I Psychology II (W., Th. and F.)	Anatomy I Biochemistry I (M., W., 1-2) Chemistry II (12.30) Chemistry III Chemistry IA (Tu. and Th.) Physics IB and IC (M., W. and F.) Psychology I Psychology II (W., Th. and F.)	Botany IA (Tu. and Th. 3-5) Botany IB (M., W. F.) Economic Geology Zoology I, II and III (M., W., and F., 3-5) Physiology I (2-5)	Astronomy I (Tu. or Th., 5.30-7.30)		

COURSES OF INSTRUCTION

MATHEMATICS¹

PROFESSOR AITKEN ; Dr EDGE, Reader ; Dr ETHERINGTON, Senior Lecturer ; Dr COSSAR, Dr MOTT, Mr PALMER, Dr HEYWOOD and Mr McLEOD, Lecturers. *Technical Mathematics*.—Dr BROWN, Senior Lecturer ; Mr MacKENZIE, Dr FULTON and Mr LUCAS, Lecturers. *Actuarial Science*.—Mr WALKER and Mr SKINNER, Lecturers.

Mathematics I

Daily at 12 during the autumn and spring terms, and on Mon., Wed., Thurs. and Fri. at 12 during the summer term. Two of the class hours per week will generally be devoted to tutorial work, which is obligatory on all members of the class. The work of the course embraces :—Algebra ; interpolation ; probability ; differential and integral calculus ; and analytical geometry. Knowledge of analytical geometry of the straight line and circle is assumed.

Mathematics II

Daily at 11 in autumn and spring, and on Mon., Wed., Thurs. and Fri. at 11 in summer. The course embraces :—Algebra ; differential and integral calculus ; differential equations ; and analytic and projective geometry.

Mathematics III and IV

The Foundations of Analysis.—Three hours weekly at 10 in autumn. The course includes :—The convergence of infinite processes ; continuity ; uniformity ; integration ; and the fundamental theorems of the calculus.

General Analysis.—In alternate years (1959-60, 1961-62, etc.) three hours weekly at 10 in spring, and (1960-61, etc.) two hours weekly at 10 in autumn and spring. The course includes some of the following topics :—Contour integration ; the gamma function ; Fourier's theorem ; Legendre and Bessel functions ; elliptic functions ; partial differential equations ; and calculus of variations.

Algebra and Geometry.—In alternate years (1959-60, 1961-62) two hours weekly at 10 in autumn and spring, and (1960-61, etc.) three hours weekly at 10 in spring. The course includes some of the following topics :—Determinants ; matrices ; groups ; tensors ; analytical geometry ; projective geometry ; differential geometry ; non-Euclidean geometry ; and relativity.

Tutorial classes in connection with the above courses are held at 2 on Tuesdays and Thursdays in autumn and spring. Revision tutorials for Honours students are held on Mondays and Thursdays at 10 in summer.

Mathematical Laboratory Course.—Four hours weekly, at times to be arranged, in spring. The course relates to the subjects treated in Whittaker and Robinson's *Calculus of Observations*.

Advanced Statistics (see p. 549).

Note.—When Mathematics III is taken as a course for the Ordinary degree of B.Sc., attendance is required on the classes in the Foundations of Analysis and either General Analysis or Algebra and Geometry, and in any other subjects which may be offered in the degree examination. The degree examination consists of any two of the papers in Foundations of Analysis and Calculus, General Analysis, Algebra and Geometry, either Mathematical Laboratory or Advanced Statistics.

¹ See Programme of Admission, p. 7.

Courses of Instruction (Pure Science)

Mathematics : Special Course

Four days weekly at 12 during the autumn and spring terms. This course forms part of the curriculum for Honours in Biochemistry (see p. 541). The work includes differential and integral calculus, and an introduction to numerical and statistical techniques.

First Course in Actuarial Science

Daily at 12 in autumn and spring ; and on Mon., Wed., Thurs. and Fri. at 12 in summer.

Second Course in Actuarial Science ¹

In autumn Mr Walker lectures in the Hall of the Faculty of Actuaries on Wed. and Fri. at 5.30 p.m. on Interest and Annuities—Certain, with Construction of relative Tables. In the eighth week of the autumn term Mr Skinner begins a course of lectures on Wed. and Fri. at 5.15 p.m., which is continued throughout the spring term, in the Hall of the Faculty of Actuaries, on Life and other Contingencies. During the spring term diploma students attend also the Mathematical Laboratory course four hours weekly, at times to be arranged. In summer, lectures and tutorials will be provided in the Mathematical Institute at times to be arranged on mathematical subjects for the diploma examination (see Faculty of Arts Programme).

Mathematical Laboratory and Library

This laboratory, which is under the direction of the Professor and the Lecturers in Mathematics, affords students a training in the science and art of calculation, and the performance of various types of numerical computation by the aid of mathematical tables and calculating machines, as required in the practical applications of mathematics.

The Research Room in the Mathematical Institute contains an extensive library of mathematical periodicals and advanced works on mathematics. There is also a collection of text books on all the branches of mathematics. Students are asked to consult the Professor or the Lecturers regarding text books suitable for their own reading.

Statistics

Dr LAWLEY, Lecturer

Elements of Statistics.—Mon., Tues. and Thurs. at 4 in summer. The course covers : Scope and meaning of statistics ; method and application of statistics ; groups and series and their graphic representation ; sources of data required in statistics ; averages ; curves—periodic, logarithmic, etc. ; empirical formulas ; interpolation ; accuracy ; the law of error and its application, application of statistical methods to problems of trade, production, population, etc. ; elements of the theory of correlation ; index numbers.

Book recommended :—Bowley, *Elements of Statistics*, pt. i.

Advanced Statistics.—Three meetings a week at times to be arranged in autumn and spring. The course covers : Probability and mathematical expectation ; the law of large numbers ; the theory of dispersion ; the theory of errors and of probability curves ; curve-fitting ; correlation ; analysis of variance ; estimation from sample ; numerical computation ; history and bibliography ; practical applications.

Book recommended for preliminary reading :—Yule and Kendall, *Introduction to the Theory of Statistics*.

¹ The lectures in the Hall of the Faculty of Actuaries are at present replaced by a correspondence course, and by discussion classes held at times to be arranged during the winter months in the Hall of the Faculty of Actuaries.

Faculty of Science

DEGREE OF B.SC. WITH HONOURS IN MATHEMATICAL SCIENCE

The curricula are as follows :—

Type A. *Mathematics with Physics.*—In the first three years students are required to take Mathematics I, II, III, Physics I, II, Mathematical Physics I, II. Students are also recommended to attend parts of Mathematical Physics III in the third year. One further course, in a Group B subject,¹ must be included if the curriculum is to qualify for an Ordinary B.Sc. at the end of the third year. In the fourth year students attend Physics III and Special Subjects chosen from the fields of Mathematics and Statistics.

Type B. *Mathematics with Mathematical Physics.*—In the first three years students are required to take Mathematics I, II, III, Mathematical Physics I, II, and two other courses one of which must be Physics I (unless entrance qualifications in Physics are good). Students are also recommended to attend parts of Mathematical Physics III in the third year. Physics I or Chemistry I, and a course in a Group B subject,¹ must be included if the curriculum is to qualify for an Ordinary B.Sc. at the end of the third year. In the fourth year students study special subjects chosen from the fields of Mathematics, Mathematical Physics, Statistics and Astrophysics IV.

A student will not be admitted to the third year of an Honours curriculum which does not also qualify for an Ordinary B.Sc. at the end of the third year unless he has a merit certificate in at least one of the lecture courses of Mathematics II, Physics II and Mathematical Physics II. This condition will not be waived except with the express permission of the Professors concerned.

A student will not be admitted to the Final Honours year of the curriculum unless he has passed the Degree examinations in at least six courses (not including Mathematics III). There is no Degree examination in Mathematics III for students who are proceeding directly to an Honours degree in Mathematical Science, the work of Mathematics III being included in the Final Honours degree examination.

Final Honours Examination :—

For Type A curriculum, Honours will be awarded on the basis of three papers in Mathematics and three papers and a practical examination in Physics. For Type B curriculum, Honours will be awarded on the basis of two papers in Mathematics, one compulsory paper in Mathematical Physics, and three other papers on subjects in one or more of the following fields : Mathematics, Mathematical Physics, Statistics, Astrophysics IV. For both types, the papers in Mathematics must include the paper on Foundations of Analysis and Calculus, and *either* the paper on General Analysis *or* that on Algebra and Geometry ; the paper on Advanced Statistics may be counted only as an alternative to the paper on Mathematical Laboratory. For Type B the papers in Mathematical Physics must include that on Dynamics.

Candidates intending to offer subjects other than those listed in the examination time-table must apply for approval to the Faculty of Science through their Director of Studies before the end of May preceding their final year.

MATHEMATICAL PHYSICS

PROFESSOR KEMMER; Dr SCHLAPP and Mr NISBET, Senior Lecturers;
Dr PURSEY, Dr CANDLIN and Dr SCREATON, Lecturers

Mathematical Physics I *

Daily at 10 during the three terms, two meetings per week being in general for tutorial instruction. The course is intended as an introduction to the ideas of mathematical physics.

¹ See p. 535 III (2).

* Entrance qualification : Higher Mathematics or equivalent.

Courses of Instruction (Pure Science)

Mathematical Physics II

Daily at 12 during the three terms, two meetings per week being in general for tutorial instruction. The course deals with topics in vector algebra, the mechanics of systems of particles and rigid bodies, vector analysis and the elementary theory of the potential.

Mathematical Physics III and IV

Daily at 11 during the three terms, and daily at 12 during the autumn and spring terms, with additional tutorials, the curriculum normally extending over five terms. Courses deal with dynamics, theory of sound, hydrodynamics, electromagnetic theory, relativity, thermodynamics, statistical mechanics and quantum mechanics.

Students proceeding to the Honours Degree in Mathematical Physics must also attend lectures on selected topics in Physics and Mathematics (at least 25 hours in each subject), usually parts of the lecture courses of Physics III and IV and Mathematics III and IV.

Mathematical Methods in Physics

At times to be arranged during the autumn term. The course is intended for students proceeding to the degree of B.Sc. with Honours in Mathematical Physics, or to Physics IV, in the following session, and will aim at familiarising them with the application of various mathematical techniques in physical investigations.

Mathematical Physics Library

The library is primarily a research library, but contains a number of advanced textbooks relevant to the courses of Mathematical Physics III and IV. Students attending those courses are encouraged to use the library for reference.

DEGREE OF B.SC. WITH HONOURS IN MATHEMATICAL PHYSICS

In the first three years of the curriculum students are required to take Mathematical Physics I, II, III, Mathematics I, II, Physics I, II. In the third year students also study certain subjects selected from Mathematics III and Physics III. One further course, in a Group B subject,¹ must be included if the curriculum is to qualify for an Ordinary B.Sc. at the end of the third year. In the fourth year students are required to study special subjects chosen from the fields of Mathematical Physics and Physics, and may also study certain subjects selected from Mathematics and Astrophysics IV.

A student will not be admitted to the third year of the Honours curriculum unless the curriculum also qualifies for an Ordinary B.Sc. at the end of the third year or unless he has a merit certificate in Mathematical Physics II. This condition will not be waived except with the express permission of the Professor.

A student will not be admitted to the Final Honours year of the curriculum unless he has passed the degree examinations in at least six courses (not including Mathematical Physics III). There is no degree examination in Mathematical Physics III for students who are proceeding directly to the Honours degree in Mathematical Physics, the work of Mathematical Physics III being included in the Final Honours degree examination.

Final Honours Examination :—

Honours will be awarded on the basis of (i) the paper on Dynamics, (ii) *either* the paper on Electromagnetic Theory *or* that on Hydrodynamics, (iii) *either* the paper on Thermodynamics and Statistical Mechanics *or* that on Quantum Mechanics. (iv) a compulsory paper in Physics, (v) two other papers on subjects *either* both chosen from the field of Mathematical Physics

¹ See p. 534 III (2).

Faculty of Science

or one chosen from that field and the other a second (prescribed) paper in Physics, a (prescribed) paper in Mathematics, or a paper in Astrophysics IV.

Candidates intending to offer subjects other than those listed in the examination time-table must apply for approval to the Faculty of Science through their Director of Studies before the end of May preceding their final year.

PHYSICS ¹

PROFESSOR FEATHER; Dr MARION ROSS, Reader; Dr EVANS, Dr FARAGO, and Dr BROWN, Senior Lecturers; Mr KYLES, Mr SILLITTO, Dr MCINALLY, Dr MUIR, Dr KENNEDY and Dr BURNS, Lecturers. *Meteorology*.—Mr PATON, Reader; Mr MCINTOSH, Lecturer. *Radiochemistry*.—Dr SUTTON, Senior Lecturer.

Physics I

The work of the class is conducted by means of lectures, laboratory work and tutorial instruction.

PHYSICS IA.—Lectures are given on Tues. and Thurs. at 11, and on Fri. at 4 and include: General Physics, Heat, Electricity and Magnetism, Light, and Sound. This course is designed for those students studying for the degree of B.Sc. with Honours in Physics, Mathematical Physics and Mathematical Science, who are concurrently attending or have attended Mathematical Physics I. Such students will find it advantageous to have obtained a pass in Additional Mathematics (Dynamics and Elementary Analysis) in the Scottish Leaving Certificate, or in Applied Mathematics at the advanced level in the General Certificate of Education, or equivalent qualification.

Students are required to take a laboratory course of 75 hours, attending one three-hour period per week.

Tutorial instruction relevant to the lecture courses is given at times to be arranged; students attend one hour per week.

PHYSICS IB.—Lectures are given on Mon., Wed. and Fri. at 11, and include General Physics, Heat, Electricity, and Magnetism, Light, and Sound. The course is designed for students studying for the degree of B.Sc. with Honours in Physical Science, Chemistry,² Biochemistry, Chemical Technology,³ Engineering and Mining, for students studying for Honours in Physics and Mathematical Science without previous or concurrent attendance at Mathematical Physics I, and for students studying for the ordinary degree of B.Sc. who intend to proceed to Physics II in a later year.

Students are required to take a laboratory course of 50 hours, attending one two-hour period per week at hours to be arranged.

Tutorial instruction relevant to the lecture course is given at times to be arranged; students attend one hour per week.

PHYSICS IC.—Lectures are given on Mon. Wed. and Fri. at 11. The course is designed for students studying for Honours in the non-physical sciences, or for the Ordinary degree of B.Sc., who intend to take only one course in Physics; a pass in this class will not admit to Physics II. The lectures will provide a survey of the scope and methods of physics.

Students are required to take a laboratory course of 50 hours, attending one two-hour period per week at times to be arranged.

Tutorial instruction relevant to the lecture course is given at times to be arranged; students attend one hour per week.

The **Degree Examination** in each course consists of two written papers and a practical examination. Exemption may be granted from the practical examination on the basis of the year's work in the laboratory.

¹ See Programme of Admission, p. 8.

² On the advice of the Director of Studies, Physics IA or Physics IC may be substituted in appropriate cases.

³ On the advice of the Director of Studies, Physics IA may be substituted in appropriate cases.

Courses of Instruction (Pure Science)

Physics II

No student will be admitted to this course before passing the degree examination for Physics I (A or B).

Lectures for Physics II are given daily at 9. The lectures treat of Electricity, Optics, Heat and Thermodynamics, General Physics and Elementary Atomic Theory.

Laboratory.—Students are required to take a course of 150 hours attending two three-hour periods per week allocated from the following:—Mon. and Fri. or Tues. and Thurs., 2-5.

Tutorials.—Tutorial sheets will be issued at intervals in connection with the course, and time will be devoted as occasion offers during the lectures to work through selected questions.

The degree examination consists of two written papers and a practical examination.

Physics III

No student will be admitted to this course before passing the degree examination for Physics II.

Students intending to proceed to Physics III are recommended to obtain from the Director of Studies for Honours Physics, at the end of the summer term of their course for Physics II, advice concerning vacation reading in preparation for Physics III.

Lectures for Physics III are given on Mon., Wed., Fri., at 9 and 12. The lectures treat of heat and thermodynamics, general physics, wave mechanics (introductory), electrodynamics, atomic physics and electronics.

Optional courses are given as follows:—

(i) Mathematical Methods in Physics.—in autumn at times to be arranged, in the Department of Mathematical Physics (see p. 551).

(ii) Advanced Meteorology.—3 lectures per week in summer.

(iii) Astrophysics.—A short survey course of 6-8 lectures (see p. 557).

Laboratory.—The Honours Laboratory is open to Physics III students on Mon., Thurs., Fri., 2-5. Students will normally attend at these hours throughout the three terms (a minimum of 200 hours). In special circumstances the Director of Studies may authorise a minimum of 150 hours.^{1, 2}

The degree examination, for the Ordinary degree and for the Honours degrees in Physical Science and Mathematical Science A, consists of three written papers and a practical examination. In each of the written papers questions will be set which are available for ordinary degree candidates only.

There is no degree examination in Physics III which is compulsory for students who are proceeding directly to an Honours degree in Physics, but certain minimum requirements of performance in the Physics III class examinations are prescribed to qualify for admission to Physics IV. A student may be advised to take the examination in Physics III for the Ordinary degree, whether or not a pass in that examination would complete his qualifications for that degree.

¹ Students intending to proceed to Physics IV, see p. 554.

² Students taking Physics III, as part of an Honours curriculum which does not include the laboratory work of Physics IV, are reminded that qualification for the Teacher's Special Certificate in Physics under Chapter V of the Regulations (see pp. 294-6) is possible only if a total of 400 hours' attendance at classes in Practical Physics has been given. When this condition has been satisfied a certificate of satisfactory performance may be obtained from the Professor of Natural Philosophy.

Faculty of Science

Physics IV (Session 1959-60)

Lectures for Physics IV are given as follows : in autumn, daily at 9, and Tues. and Thurs. at 12 ; in spring, Mon., Wed. and Fri. at 9, and Tues. and Thurs. at 12. The lectures treat of physical optics, quantum mechanics, acoustics and fluid motion, physics of the solid state and nuclear physics.

Theoretical Physics (option in Physics IV).¹—The course for the option including Theoretical Physics in Physics IV consists of the lectures for Physics IV together with not less than 40 or more than 60 lectures on selected topics in Theoretical Physics, usually part of the lecture courses for Mathematical Physics IV, see p. 551. No practical work will be required during the year in which a student is taking this course.

Astrophysics (option in Physics IV).²—The course for the option including Astrophysics in Physics IV consists of the lectures for Physics IV together with not less than 70 or more than 120 hours practical work in spectroscopy and sensitometry (at the Royal Observatory) which may be substituted for an equal amount of practical work in optics from the normal course for Physics IV. No student will be admitted to this course if he has not taken the lectures in Astrophysics of Physics III and reached a satisfactory standard in the corresponding class examination.

The Honours Laboratory is open to Physics IV students on Mon., Thurs., Fri., 2-5, and at other times by arrangement. Students are required to attend throughout the autumn and spring terms for a minimum of 250 hours, or for 300 hours if only 150 hours' laboratory attendance was given in Physics III.

In suitable cases it may be possible to invite students to collaborate in research in progress in the laboratory. In such cases about four weeks so spent during term may be substituted for the normal laboratory attendance.

Honours Seminar.—One meeting per week during the autumn and spring terms at times to be arranged. Attendance at these meetings is optional for Honours students. The meetings are intended to provide opportunity for the discussion of special topics in an informal manner.

Physics IV (Session 1960-61)

Lectures for Physics IV are given in autumn and spring, daily at 9, on Tues. and Thurs. at 12, and at other hours to be arranged. There are 90 compulsory lectures, which treat of physical optics, quantum mechanics, fluid motion and acoustics, nuclear physics, and physics of the solid state. In addition students attend lectures on special topics. Normally each student will be required to attend 35 such lectures, but this number may be reduced to 18 for students who have attended the optional course in Meteorology in Physics III. Lectures on special topics may be given elsewhere than in the Department of Physics.

Special Topics.—Details of the courses of lectures on special topics to be available in any session will be announced early in the spring term of the preceding session. Each student will choose one or more of these courses, subject to the approval of the Professor, not later than the end of the summer term in which he completes attendance on Physics III. The courses available will normally include courses of 35 lectures each in Theoretical Physics and in Astrophysics.

Laboratory.—Students attend the Honours Laboratory on Mon., Tues., Thurs. and Fri., 2-5, throughout the autumn and spring terms (a minimum of 200 hours, to which students who attended for only 150 hours in Physics III must add a further 50 hours' attendance). In connection with their chosen special topics courses, students may be required to undertake practical work

¹ See p. 542, footnote 2.

² See p. 542, footnote 3.

Courses of Instruction (Pure Science)

in the research laboratories of the Department, or in the Royal Observatory. Time so spent may be counted in lieu of attendance at the Honours Laboratory; in no case will it exceed 100 hours. Required attendance for tutorial instruction in the Department of Mathematical Physics may similarly qualify for remission of not more than 50 hours' Laboratory attendance.

Honours Seminar.—As above.

DEGREE OF B.SC. WITH HONOURS IN PHYSICS

In the first three years students are required to attend Physics I, II, III, Mathematics I, II, Mathematical Physics I, and another course, normally Mathematical Physics II. In the third year certain of the classes in Mathematical Physics III and Mathematics III may be attended. If one course in a Group B subject¹ is included during one of these three years a student may qualify for an Ordinary degree at the end of the third year.

In the fourth year students attend Physics IV (compulsory lectures and special topics).

A student will not be admitted to the third year of an Honours curriculum which does not qualify for an Ordinary degree at the end of the third year unless he has a merit certificate in the lecture course of Physics II. This condition will not be waived except with the express permission of the Professor.

A student will not be admitted to the fourth year of the curriculum unless he has a merit certificate in Physics II and has performed satisfactorily in the class examinations of Physics III, or has a merit certificate in Physics III, without the express permission of the Professor.

Final Honours Examination (1960) :—

The Honours degree examination consists of six papers covering the lecture courses of Physics III and IV, an essay paper, and an assessment of the laboratory work performed during these courses. There will be no practical examination.

Candidates offering the Theoretical Physics option take a written paper on Theoretical Physics in the Honours examination in addition to the written papers required of all candidates for Honours in Physics.

Candidates offering the Astrophysics option are required to answer questions on the lectures in Astrophysics of Physics III in place of questions on the normal Honours course in one of the papers of the Honours examination.

Physical Laboratory

The laboratory is open to students during the three terms from 9 to 5, Monday to Friday each week. For research students the laboratory is open at the above times and also on Saturdays from 9 to 12, remaining open throughout the year, except during holidays, of which due notice will be given.

Natural Philosophy Library

The library is used for reference by the Ordinary class, and as a lending and reference library by the classes of later years.

DEGREE OF B.SC. WITH HONOURS IN PHYSICAL SCIENCE—PHYSICS WITH GEOLOGY AND PHYSICS WITH CHEMISTRY

1. Physics with Geology.—The first three years of the curriculum leading to the degree with Honours in Physical Science, Physics with Geology, consist of the courses in Physics I, II, Geology I, Mathematics I, II, Chemistry I and one other course. The curriculum qualifies for an Ordinary degree at the end of the third year.

In the fourth year students attend Physics III and Geology II.

A student will not be admitted to the fourth year of the curriculum unless

¹ See p. 535 III (2).

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he has merit certificates in Physics II and Geology I, or has been granted express permission by the Professors.

Final Honours Examination

The final examination for the degree consists of the degree examination in Physics III (three written papers and a practical examination) and the degree examination in Geology II (two written papers and a practical examination).

2. Physics with Chemistry.—For the degree with Honours in Physics with Chemistry students attend in the first three years of the curriculum the courses in Physics I, II, Chemistry I, II, Mathematics I, II and one other course. If one course in a Group B subject¹ is included during one of these three years a student may qualify for an Ordinary degree at the end of the third year.

Subsequently students attend the lecture and practical classes of Physics III and Chemistry III : with the present time-table this part of the curriculum must be spread over two sessions.

A student will not be allowed to proceed beyond the third year of the curriculum unless he has merit certificates in Physics II and Chemistry II, or has been granted express permission by the Professors.

Final Honours Examination :—

The final examination for the degree consists of the degree examination in Physics III (three written papers and a practical examination) and the degree examination in Chemistry III (two written papers, and a practical examination from which exemption may be granted).

METEOROLOGY

Mr PATON, Reader ; Mr MCINTOSH, Lecturer

Four days weekly, normally Mon., Tues., Thurs., and Fri., at 11, during three terms, with two hours weekly, at times to be arranged, for tutorial instruction and practical exercises. Students of the course are expected to have an elementary knowledge of mechanics, general physics, and heat.

The syllabus includes :—1. Introduction—History of the development of meteorology ; meteorological instruments and observations ; the distribution of the meteorological elements over the globe ; the physics of water vapour ; elementary theory of radiation. 2. Physical Meteorology—Radiation phenomena in the atmosphere ; conditions of stability for unsaturated and saturated air ; the use of adiabatic diagrams ; condensation nuclei ; the formation of cloud, precipitation and fog ; the upper atmosphere. 3. Dynamical meteorology—Derivation and application of the geostrophic and gradient wind equations ; variation of wind with height in the atmosphere ; cyclones, anti-cyclones and the general circulation. 4. Synoptic meteorology—Air masses and fronts ; the use of sea level and upper air charts in weather forecasting. 5. Atmospheric optical phenomena. 6. Elements of terrestrial magnetism ; the magnetic storm and aurora. 7. Elements of atmospheric electricity ; the thunderstorm.

ADVANCED METEOROLOGY

Three lectures per week in summer (see p. 553).

See p. 535 III (2).

Courses of Instruction (Pure Science)

ASTRONOMY

PROFESSOR BRÜCK; and Dr SMYTH, Lecturer

Astronomy I

Sixty lectures in the Mathematical Institute on Mon. and Fri. at 3 and Wed. at 5 and about twenty meetings at the Royal Observatory on Tues. or Thurs. from 5.30 to 7.30 for tutorial instruction and practical exercises. Students should have a knowledge of mathematics as represented by the First Ordinary course in mathematics (see under Faculty of Arts), and of dynamics as represented by the Preliminary Examination.

This course aims at being an introduction into (a) positional astronomy, (b) astrophysics, and (c) stellar astronomy.

(a) will include :—Spherical coordinates of stars; effects of refraction, precession, nutation, aberration and parallax; definition of time; determination of longitude and latitude; planetary motions; observational methods of positional astronomy.

(b) will include :—physical characteristics of stars; magnitudes, colours, spectra, masses, luminosities; stellar atmospheres and interiors; the sun and the solar system; double stars, variables and novæ; interstellar gas and dust; observational methods of astrophysics.

(c) will include :—distributions and motions of stars and interstellar matter; star clusters and stellar systems; stellar populations; the structure of our galaxy and of external galaxies; evolution of stars and galaxies.

Students who in the practical class examinations attain a standard which is approximately that of a first-class merit certificate may be exempted from the degree practical examination.

Astrophysics III

A short survey course of 6-8 lectures, at times to be arranged, dealing with selected problems in modern astrophysics.

Astrophysics IV

A course of 35 lectures, at times to be arranged in autumn and spring, together with not more than 70 hours' practical work in spectroscopy or photometry, or both, at the Royal Observatory. The lectures treat of the physics of stellar atmospheres and interstellar matter, the theory of the structure and evolution of the stars, and the problems of galactic structure and the formation of galaxies.

(Note.—This course will be given for the first time in session 1960-61.)

Astronomical Library

The library, which contains the Ramsay Memorial Collection, is a reference and lending library for the use of students taking courses in Astronomy and Astrophysics. It is housed at the Royal Observatory where it forms a special part of the Observatory's main library.

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; Dr RITCHIE and Dr CAMPBELL, Readers; Dr T. R. BOLAM and Dr CHRISTINA MILLER, Senior Lecturers; Dr BEEVERS, Dr TAYLOR, Dr ASPINALL, Dr ELIZABETH PERCIVAL, Dr MANNERS, Dr GREENWOOD, Dr KNOX, Dr TROTMAN-DICKENSON, Dr ANDERSON, Dr ROSSOTTI, Dr SCHWARZ and Dr LEAVER, Lecturers.

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Chemistry I ¹

The lecture part of the course is given on Mon., Wed. and Fri. at 9.30. For tutorial work, which is obligatory, the class may be divided into sections, which will meet at hours to be arranged. The subjects treated in the lectures will include :—General chemistry ; the chemistry of the more important metallic and non-metallic elements, with particular reference to the Periodic Classification ; an introduction to Physical Chemistry ; an introduction to Organic Chemistry. The laboratory part of the course (at least two hours twice a week during the three terms) will include :—Volumetric and gravimetric analysis ; systematic qualitative inorganic analysis ; the preparation and reactions of simple organic compounds.

Chemistry II ¹

The lectures are given on Mon., Wed. and Fri. at 12.30. The subjects are :—Advanced inorganic chemistry, chemical theory, physical chemistry, and organic chemistry. Fifteen hours weekly must be given to laboratory and tutorial work. The laboratory work includes :—Quantitative estimations ; qualitative analysis ; the preparation of typical organic substances ; and simple physico-chemical experiments.

Chemistry III

Advanced lecture course on Tues. and Thurs. at 12.30, and on Fri. at 2. Students who take Chemistry III must attend at least 15 hours weekly in the laboratory. The work includes further inorganic analysis ; the preparation, testing, and ultimate analysis of organic substances ; and physico-chemical measurements.

Chemistry IV

Lecture course on Mon., Tues., Wed. and Thurs. at 9.30 in autumn and spring. Students who proceed to Honours must attend at least 30 hours weekly in lecture and laboratory courses. A course on Quantitative Organic Micro-Analysis may be substituted for part of the regular laboratory course.

Chemical Laboratories

The laboratories, which are open daily from 9.30 to 4.30 during terms, contain the necessary equipment for a complete course of instruction in the various branches of chemical work and research. Instruction is given in the qualitative and quantitative analysis (including microchemical methods) of organic and inorganic substances, chemical preparations, and physico-chemical measurements. The training is suited for students studying for Science and Arts degrees, and for examinations of the Institute of Chemistry, and for persons desiring to qualify as analysts, technical chemists, etc.

Chemistry Museum and Library

The museum, founded by Professor (afterwards Lord) Playfair, has been enriched by gifts from chemical manufacturers and others, and by substances prepared in the laboratories. The library, which was founded by Professor Crum Brown, and which contains over 10,000 volumes, is open during the terms for reference daily from 10 to 12.30 and from 2 to 4.45 (Sat. 10-12).

Romanes Lecture

The next Romanes Lecture will be delivered on a date to be announced later.

¹ In Chemistry I and II a first- or second-class merit certificate in the practical examinations may exempt from the degree practical examination.

Courses of Instruction (Pure Science)

BIOCHEMISTRY

PROFESSOR FISHER; Dr STEDMAN, Reader; ⁴Dr GRANT, ⁵Dr RAMSAY and ¹Dr OTTAWAY, Senior Lecturers; Dr MINNIS, Dr CRUFT, Dr BOYD and Mr RYLE, Lecturers.

Biochemistry I

The lecture course is given on Mon. and Wed. at 1 p.m. and on Thurs. at 4 p.m. The times of lectures may, if necessary, be changed to suit the convenience of the class. Students taking this course as qualifying for the B.Sc. degree must give a minimum of 12 hours per week (*i.e.* on Mon. and Wed.) to laboratory work. Students desirous of taking the laboratory course should make early application to Professor Fisher.

The course deals with the constituents of animals and plants and the transformation which these substances undergo in the living organism. As a rule students will be expected, and for graduation in Science will be required, to have attended Chemistry I and Chemistry II, and it is desirable that they should have gained a merit certificate in Chemistry II. The course is intended for those specialising in Chemistry, Bacteriology, Botany, etc., as well as for those proposing to engage in medical research involving chemical methods.

Biochemistry II

This advanced course in Biochemistry for those taking an Honours degree in that subject will include lectures and colloquia on special subjects selected at the discretion of the staff, directions for reading, and instruction in laboratory technique and methods of conducting biochemical research.

For other courses given in the Department of Biochemistry see Physiology I (p. 566) and Faculty of Medicine Programme.

ZOOLOGY

PROFESSOR SWANN; Dr J. M. MITCHISON, Reader; and Lecturers

Zoology I

Mon., Wed., and Fri. from 2 to 5. The course aims at being an Introduction to the Science of Life. It deals in an elementary way with the physics and chemistry of protoplasm, the origin of life, the structure and activities of cells, the problems of growth and development, the nature of inheritance, the organisation and functioning of a range of animals of increasing complexity, the idea of evolution, the nervous system and behaviour, animals of economic importance, and the study of populations.

Zoology II

Mon., Wed., and Fri. from 2 to 5, and another period of three hours for practical work. The course will survey the animal kingdom at a considerably more advanced level than the First Course, and will include lectures on evolution and genetics.

Zoology III

Mon., Tues., Wed., and Fri. from 2 to 5, and another period of three hours for practical work. The course covers a wide range of advanced topics in modern biology. Lectures will be given on the following subjects, with practical

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work where appropriate :—Cell physiology ; Histology ; Embryology ; General physiology ; Behaviour and special senses ; Protozoology ; Experimental entomology ; Immunology and Applied Biology.

Vacation course :—Students are required to attend a course in Marine Biology during the Easter Vacation.

Zoology IV

Whole-time.—The autumn term's work consists mainly of seminars for which students prepare, read and discuss papers, helped by members of the staff. In the spring and summer terms each student does some original research, under guidance, and writes a thesis on his work.

Vacation Course.—Students are expected to attend an advanced course in Marine or Fresh-Water Biology or an equivalent course during the Easter vacation.

The Ashworth Laboratory

The laboratory is open daily for advanced study and research.

The Laboratories of the Scottish Marine Biological Association (Marine Station, Millport) and of the Freshwater Biological Association (Ferry House, Lake Windermere).—The University has the use of a table in the first of these laboratories, and can nominate a worker to occupy a table for one month each year in the latter. Applications for the use of these tables should be sent to the Dean of the Faculty of Science. Each applicant should indicate for how long he desires to occupy the table, and the nature of the work he proposes to undertake.

BOTANY

PROFESSOR BROWN; Dr NELSON, Reader; Dr FLETCHER, Senior Lecturer; Dr BLYTH, Dr BROOK, Dr DAVIS, Dr DODDS, Dr HEYES, Mr LYALL and Mr ROBERTS, Lecturers.

Botany I (A and B)

Mr ROBERTS and Mr LYALL, Lecturers

The class is dual and meets in two units (A and B): the A class for lectures and practicals on Tues. and Thurs. 2-5 p.m. and Sat. 9 a.m.-12 noon; the B class on Mon., Wed. and Fri. 2-5 p.m. Both classes continue through three terms. At times during the course there will be excursions during class hours for the practical study of plants in the field.

The two classes follow the same general syllabus but the treatment of the subject will differ. The A class caters for students intending to go on to further study of plant science, while the B class is for all those who have no desire or no need to study botany for more than one year.

The subjects of both courses are :—Morphology and Anatomy of phanerogamic plants and their physiology, the life histories of selected types of cryptogamic plants and, in the summer, ecology and the identification (systematy) of phanerogams.

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Botany II

PROFESSOR BROWN and Lecturers

Lectures and practical work on Mon., Wed. and Fri. from 9-12, and another period of three hours for practical work in the summer term. Courses will be given in the following subjects :—

Physiology; ecology; angiosperm taxonomy; cryptogamic botany, including mycology. Excursions are held during the year.

Students who propose going on to Botany III are required to carry out in the vacations of the second and third years of their course such field studies as their lecturers shall direct.

Botany III

Lectures and practical work daily from 9-12. The work includes an extended study of Angiosperm taxonomy, physiology, ecology and mycology. Studies in Gymnosperms, plant-anatomy, plant-geography, genetics and cytology will be introduced during the year. Excursions are held.

A report on the field studies mentioned above must be presented by May.

Botany IV

The course consists of extended reading and practical work of the nature of research. Essays on prescribed subjects are required from time to time, and a thesis embodying a report on the practical work is an integral part of the final examination.

Plant Physiology

Dr NELSON, Reader

Lectures and laboratory work on Wed. and Fri. from 9 to 12 in spring. The course deals with the experimental study of plant metabolism. Additional courses are given on Mon. and Thur. from 9 to 12 in autumn for the study of the physiology and genetics of plant development.

Bacterial Diseases of Plants

Dr BLYTH, Lecturer

Ten meetings, on Tues. and Thurs. in summer. The course consists of lectures and practical work on the more common genera of bacteria pathogenic to plants, and the diseases which they cause.

Laboratory

The University laboratory at the Royal Botanic Garden is open daily for the practical study of plants and botanical research.

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GEOLOGY and MINERALOGY

PROFESSOR STEWART; DR CRAIG, DR BLACK, MR DUFF, DR WALTON,
DR JOHNSON, DR MERCY and MR HALLAM, Lecturers

Geology I ¹

Mon., Wed. and Fri. from 9.30 to 10.30 and Tues. and Thurs. from 10.30 to 12.30. The lectures cover the general principles of geology. The practical work embraces the study of the physical and chemical properties of the more important minerals and rock types; the characters and distribution in time of the more important classes and genera of fossils; and the methods of construction and interpretation of geological maps and sections. Students are expected to attend field excursions at times to be arranged (including Saturday).

Geology I (Alternative Course) ^{1, 2}

Mon. and Fri. from 2 to 5 and Wed. from 2 to 3. Syllabus and field work as under Geology I. Class and degree examination dates as for Geology I.

Geology II ¹

Tues. and Thurs. from 9.30 to 12.30 and 2 to 5. The course includes lectures and practical work in mineralogy, petrology, palaeontology and stratigraphy.

Field excursions—Students must attend a field course of a week to ten days during the Easter vacation, in addition to excursions on some Saturdays during term.

Geology III

Lectures and practical work daily from Mon. to Fri. from 9.30 to 12.30. The work includes advanced courses in the major branches of geology, and in structural geology, geo-chemistry and other special topics.

Students must attend a field course of a week to ten days during the Easter vacation.

Students proceeding to Geology IV are also required to carry out independent field work in an approved area for a period of four to six weeks during the summer vacation.

Geology IV

Whole-time.—Courses will consist of advanced lectures and laboratory work, together with prescribed reading and field work.

Students must present, before the end of the Easter term, a thesis and a map covering the study of their approved areas.

Economic Geology

Lectures and practical work on Tues. and Thurs. from 2 to 4 in autumn and spring terms. Subjects include Ore deposits and Fuels.

¹ A merit certificate in the practical examinations may exempt from the degree practical examination.

² This course will be taken by mining students and by those Pure Science students who are unable, because of time-table difficulties, to attend normal Geology I classes.

Courses of Instruction (Pure Science)

Geology for Applied Science

Mon., Wed. and Fri. from 12 to 1 in autumn and spring terms. Sat. forenoons, as far as possible, are devoted to field demonstrations. The following subjects are dealt with : common minerals and rocks ; physical and structural geology ; geological surveying ; practical applications to engineering, forestry, etc.

Engineering Geology

One hour a week during the three terms at a time to be arranged. This is one of the Additional Subjects to be taken by Honours Engineering students in their third year. Lectures and laboratory demonstrations will include :— interpretation of geological maps and sections ; water supply ; geological factors involved in the construction of reservoirs, dams, tunnels, roads, railways, etc.

Geological Laboratories

The laboratories are open daily from 9 to 5 during terms.

Geological Library and Cockburn Museum

The library, founded by Professors Sir Archibald and James Geikie, is used as a reference and lending library by students taking courses in Geology. The museum, formed for class purposes and named after its first Curator, Dr A. M. Cockburn, shows the characters of minerals and rocks, and the typical materials of the various geological systems.

PSYCHOLOGY

PROFESSOR DREVER ; Dr MARY COLLINS, Reader ; Mr McMAHON and Dr SEMENOFF, Senior Lecturers ; Mr MCKENZIE, Miss COOKSON and Dr HUNTER, Lecturers.

Psychology I

Mon., Tues., Wed. and Fri. at 11. The topics dealt with will be :— Scope and methods of psychology ; {external and internal determinants of behaviour ; learning ; successful and unsuccessful adaptation ; measurement of individual differences ; the structure of the personality ; introduction to social and clinical psychology. During the year practical work will be carried out each week at hours to be arranged.

Books recommended :—Krech and Crutchfield, *Elements of Psychology* ; Morgan, *Introduction to Psychology* ; or Hlgard, *Introduction to Psychology* ; Hunter, *Memory* ; Vernon, *Measurement of Abilities* ; Katz, *Animals and Men*.

Psychology II

There are five concurrent courses :—

(1) Perception (Professor Drever). Tues. at 9. The course will cover theoretical and experimental work on perception from 1900 onwards.

Books recommended :—Allport, *Theories of Perception and the Concept of Structure* ; Boring, *Sensation and Perception in the History of Experimental Psychology* ; Broadbent, *Perception and Communication* ; Brunswik, *Perception and the Representative Design of Psychological Experiments* ; Gibson, *The Perception of the Visual World* ; Hebb, *The Organisation of Behaviour* ; Koffka, *Principles of Gestalt Psychology* ; Vernon, *A Further Study of Visual Perception*.

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(2) Mental Testing (Dr Collins). Tues. and Thurs. at 10. In addition two hours per week will be required for practical work at times to be arranged.

Books recommended :—Anastasi, *Psychological Testing*; Cronbach, *Essentials of Psychological Testing*; Terman and Merrill, *Measuring Intelligence*; Freeman, *Theory and Practice of Psychological Testing*; Goodenough, *Mental Testing*; Vernon, *The Structure of Human Abilities*; Watson, *The Clinical Method in Psychology*; Wechsler, *The Measurement of Adult Intelligence* (4th Edition); Schonell, *Backwardness in the Basic Subjects*.

(3) Experimental and Statistical Method (Dr Semeonoff). Wed. and Fri. at 11.

Books recommended :—Guilford, *Fundamental Statistics in Psychology and Education*; or Garrett, *Statistics in Psychology and Education* (5th Edition); Siegel, *Nonparametric Statistics for the Behavioural Sciences*; Maxwell, *Experimental Design in Psychology and the Medical Sciences*.

(4) Learning and Thinking (Dr Hunter). Thurs. at 11. The course is concerned with processes of human learning, remembering and thinking. Emphasis is placed on the patterning of these processes within the developing-ageing individual.

Books recommended :—Bartlett, *Remembering*; Bartlett, *Thinking*; Hebb, *A Textbook of Psychology*; Johnson, *The Psychology of Thought and Judgment*; McKellar, *Imagination and Thinking*; Osgood, *Method and Theory in Experimental Psychology*; Welford, *Ageing and Human Skill*.

(5) Experimental Psychology (Dr Hunter). This is a laboratory course requiring two consecutive hours per week at times to be arranged.

Books recommended :—Woodworth and Schlosberg, *Experimental Psychology*; Postman and Egan, *Experimental Psychology*.

Psychology III

There are five concurrent courses :—

(1) Psychological Theory (Professor Drever). Fri. at 9. An attempt will be made in an informal series of discussions to explore some of the systematic problems of Psychology and contemporary attempts to solve them.

Books recommended :—Brunswik, *The Conceptual Framework of Psychology*; Thorpe, *Learning and Instinct in Animals*; Lewin, *A Dynamic Theory of Personality*; Marx, *Psychological Theory*; Morris, *Signs, Language and Behaviour*; Poffenberger (ed.), *Modern Learning Theory*; Peter, *The Concept of Motivation*.

(2) Child Psychology (Dr Collins). Wed. at 9. This course covers the development of the individual from birth with some consideration of problems and difficulties.

Books recommended :—Barker, Kounin and Wright, *Child Behaviour and Development*; Manual of *Child Psychology* (2nd Edition, Ed. Carmichael); Gesell, *The First Five Years of Life*; Isaacs, *Intellectual Growth in Young Children*; Piaget, *The Child's Conception of Number*; Piaget, *The Origin of Intelligence in the Child*; *Discussions on Child Development* (Ed. Tanner and Inhelder); Hurlock, *Adolescent Development*; Zubek and Solberg, *Human Development*; Werner, *Comparative Psychology of Mental Development*; Furt, *The Young Delinquent*; Bovet, *Psychiatric Aspects of Juvenile Delinquency*; Bowlby, *Maternal Care and Child Health*; Bowlby, *44 Juvenile Thieves*; Stott, *Human Nature and Delinquency*; Glueck and Glueck, *Unravelling Juvenile Delinquency*; Kanner, *Child Psychiatry*; Burbury, Balint and Yapp, *Child Guidance*; Gittins, *Approved School Boys*; Jackson and Todd, *Child Treatment and the Therapy of Play*.

Courses of Instruction (Pure Science)

(3) Educational and Vocational Psychology (Mr McMahon). Mon. at 9. The lectures will deal with theories and methods of assessment, particularly with those applying to educational and vocational guidance and selection. Practical work will be carried out at the Department's Applied Psychology Unit.

Books recommended :—Allport, *Personality*; Vernon, *The Structure of Human Abilities, Personality Tests and Assessments*; Oldfield, *The Psychology of the Interview*; Ghiselli and Brown, *Personnel and Industrial Psychology*; Super, *Appraising Vocational Fitness*; McClelland, *Selection for Secondary Education*; Eysenck, *Dimensions of Personality* or *The Scientific Study of Personality*.

(4) Social and Industrial Psychology (Mr McKenzie). Thurs. at 9. A course in Industrial Psychology, leading on to a consideration of some of the social factors in human behaviour, and of attempts to systematise the study of them.

Books recommended :—Krech and Crutchfield, *Theory and Problems of Social Psychology*; Swanson, Newcomb, and Hartley (ed.), *Readings in Social Psychology*; Festinger and Katz, *Research Methods in the Behavioural Sciences*; Lewin, *Field Theory in Social Science*; Mayo, *Human Problems of an Industrial Civilisation*; *Social Problems of an Industrial Civilisation*; Jaques, *The Changing Culture of a Factory*; Rogers, *Client-centred Therapy*; Ghiselli and Brown, *Personnel and Industrial Psychology*; Eysenck, *Scientific Study of Personality*.

(5) Neuropsychology (Dr Naughton). Thur. After a revision of elementary neuroanatomy and neurophysiology, students are introduced to some of the effects of damage to the nervous system upon psychological function, illustrated by clinical and pathological material. Implications for general psychological theory are discussed.

Books recommended :—Morgan and Stellar, *Physiological Psychology*; Ranson, *The Anatomy of the Nervous System*; Walsh, E. G., *Physiology of the Nervous System*; Cobb, *Foundations of Neuropsychiatry*; Klein and Mayer-Gross, *The Clinical Examination of Patients with Organic Cerebral Disease*; Neilsen, *Agnosia, Apraxia, Aphasia*; Weisenburg and McBride, *Aphasia*; Goldstein, *Brain Injuries in War*.

Psychology Laboratory and Library

The laboratory is open during the terms, for research and for practical instruction, under the direction of the Professor. The library is open to members of the advanced Psychology classes and to research students.

ANATOMY

PROFESSOR ROMANES, Reader; Dr KEMBALL and Dr MUIR, Senior Lecturers; Mr CRAIG, Dr HELEN BARRETT, Dr TAYLOR, Dr ROBERTSON, Dr KERR, Dr KING, Mr PATERSON, Dr CAMPBELL, Mr ADAMS and Dr PETERS, Lecturers.

Courses for Combined Honours B.Sc. and M.B., Ch.B.¹

Anatomy I.¹ The first year's course of study for the Second Professional examination for the degrees of M.B., Ch.B. (see under Faculty of Medicine): —Lectures (including elementary Human Embryology) in autumn and spring; Practical Anatomy and Microscopic Anatomy for three terms; Regional Anatomy in summer term.

¹ See p. 543.

² A first-class merit certificate in the practical examinations may exempt from the degree practical examination.

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Anatomy II. The second year's course of study for the Second Professional examination (see under Faculty of Medicine):—Lectures, Neuro-Anatomy, Regional Anatomy and Practical Anatomy for two terms.

After the Second Professional examination in the spring term, there will be, in the summer term, additional preliminary work for the Honours year.

Anatomy III. Courses in Human Morphology and Human Embryology, Histology and Cytology.

Anatomical Museum

The museum was founded in 1800 by Professor Alexander Monro *secundus*, who presented his own and his father's anatomical collections. Numerous additions have been made, particularly from the collections of Professor Alexander Monro *tertius* (through his son, Sir David), Professor John Goodsir, the Henderson Trustees, and Principal Sir William Turner. The museum contains several thousands of specimens in illustration of Human Anatomy normal and pathological, and Comparative Anatomy; it is specially rich in human crania from all parts of the world. The Professor of Anatomy, who is the Curator, would welcome further additions, especially of the osteology of the different races of man. The museum is at present closed for alterations.

Anatomical Research Laboratory

This laboratory is open daily throughout the year.

PHYSIOLOGY

PROFESSOR WHITTERIDGE; Dr MARY PICKFORD and Dr PASSMORE, Readers; Dr DRAPER and Dr WALSH, Senior Lecturers; Dr DEWAR, Dr WATT, Dr IGGO, Dr GAZE, Dr HAGGIS, Dr ROBERTS and Dr BEGBIE, Lecturers.

Physiology I

The course consists of an elementary systematic survey of general and mammalian Physiology and Biochemistry and includes classes in Histology.

The Biochemistry lectures and laboratory course are held in the Department of Biochemistry as follows:—

Lectures on Mon., Tues. and Wed. at 9 a.m. during the autumn term and on Mon. and Tues. at 9 a.m. during the spring term.

Practical on Tues. from 10 a.m. to 1 p.m. during the autumn and spring terms.

Physiology lectures are held at 9 a.m. on Thurs. and Fri. during the autumn and spring terms, and at 9 a.m. on Tues., Thurs. and Fri. during the summer term.

Practical classes in animal and human physiology are held on Tues. from 2-5 p.m. throughout the year (or, under special circumstances, at other times).

Demonstrations illustrative of physiological phenomena and techniques which cannot be included in the practical class, or additional practical exercises, are held on Wed. mornings.

Histology classes are held on Thurs. from 2-4 p.m. during the autumn and spring terms and on Tues. from 10-12 noon during the summer term.

It is desirable that students proceeding to Physiology I should have attended Chemistry I and Physics I.

Physiology with Pharmacology

Details of this course will be announced later. Those interested should make application to the Heads of the Departments of Physiology and Pharmacology.

Courses of Instruction (Pure Science)

Physiology III

Tutorials and demonstrations at times to be arranged. Laboratory work, at times to be arranged, is mainly concerned with a critical appraisal of methods of conducting research in physiology. A thesis covering some original research may be submitted at the end of the third term.

Medical students wishing to take Physiology III must satisfy the Professor at the end of their fifth term that they have a sufficient attainment in physiology and they must submit to supervision of their study during the summer term of the third year of the medical course.

Text-books :—Starling, *Principles of Human Physiology* ; Newton, *Recent Advances in Physiology* ; Sherrington, *Mammalian Physiology* ; Fulton, *Text-book of Physiology* ; Winton and Bayliss, *Human Physiology* ; Davson, *A Text-book of General Physiology* ; Prosser, *Comparative Animal Physiology* ; Baker, *Cytological Technique* ; Le Gros Clark, *The Tissues of the Body* ; Houssay, *Human Physiology*.

Physiology Laboratories

All laboratories for research and practical work are open daily throughout the year under regulations which may be obtained from the Professor.

Physiology Library

Professor William Rutherford bequeathed his books and periodicals to the University for the Department of Physiology ; and it was resolved to continue the periodicals and add books as opportunities occurred. In 1930 Professor Sir Edward Sharpey Schafer presented to the University the whole of his scientific library, containing several thousands of books and pamphlets, on the same conditions as Professor Rutherford. The library is not open to students but is used for reference and as a reading-room by those engaged in research. The books may be consulted by others on application to the Professor or to the Librarian in charge.

BACTERIOLOGY

PROFESSOR CRUICKSHANK ; and Lecturers

Bacteriology I

Dr DUGUID, Senior Lecturer ; Dr WILKINSON, Lecturer ; and
Dr GIBSON, Lecturer in Agricultural Bacteriology

This class, which meets on three days a week during the three terms, is so arranged as to enable the Science student to obtain a theoretic and practical knowledge of Microbiology, primarily as a biological science, with an introduction to its various applications.

The lectures deal with :—General principles of Microbiology ; general applications (in medical and veterinary science, agriculture, industries) ; micro-organisms—their classification, morphology, and physiology ; nutrition and metabolism ; microbial enzymes ; products of microbial action ; infection ; fundamental aspects of immunity ; immunological chemistry ; systematic study of representative types of micro-organisms, including pathogens of man, domestic animals, plants, and the commoner saprophytes ; viruses ; bacteriology of air, water and water purification, sewage and sewage purification, soil, foods and food preservation, milk and dairy products ; microbiology of

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alcoholic fermentations ; antimicrobial agents including chemotherapy and antibiotics.

The practical laboratory work includes :—Microscopy ; sterilisation ; preparation of culture media ; cultivation of bacteria ; staining methods ; laboratory work following and illustrating the systematic studies indicated in the syllabus of lectures.

Honours Course

PROFESSOR CRUICKSHANK ; Dr SWAIN, Reader ; Dr DUGUID, Senior Lecturer ; Dr WILKINSON, Lecturer

This course consists of advanced and experimental work in Bacteriology, Microbiology and Immunology, including Chemical Microbiology. It also affords instruction in research methods, and for the degree examination students are required to submit a dissertation on a special subject embodying the results of their own studies in the laboratory along with a critical review of the relevant literature.

Post-Graduate Research Studies

Laboratory facilities to undertake research work are available for a limited number of post-graduate students, including those preparing for the M.Sc. or Ph.D. degrees. Application should be made to the Head of the Department of Bacteriology.

PATHOLOGY

PROFESSOR MONTGOMERY ; and Lecturers

Honours Course

During the year the student will devote his whole time to advanced and experimental work in pathology. The course is mainly practical and consists (a) in a study of pathological technique ; (b) in the working out in detail of selected post-mortem cases ; (c) in advanced work on subjects to be selected. There are conferences held at intervals on the work being done. The class of Neuro-Pathology, usually held in autumn or spring, will form part of the Honours Course.

Pathological Laboratory

This is open daily for Pathological research under the superintendence of the Professor, to whom application should be made.

PHARMACOLOGY

PROFESSOR PERRY ; Dr VOGT, Reader ; Dr ADAM, Senior Lecturer ; Dr BARLOW, Dr CRAWFORD and Mr STEPHENSON, Lecturers

Physiology with Pharmacology

For details of this course see p. 566.

Courses of Instruction (Pure Science)

Pharmacology II

Laboratory work and methods of conducting research in Pharmacology at times to be arranged.

Text-books :—Gaddum, *Pharmacology* ; Burn, Finney and Goodwin, *Biological Standardization* ; Goodman and Gilman, *The Pharmacological Basis of Therapeutics*.

PREHISTORIC ARCHÆOLOGY

PROFESSOR PIGGOTT ; and Mr THOMAS, Lecturer

Prehistoric Archæology I

Daily at 5 in autumn and spring. The course will deal with the development of human material culture from man's first appearance down to the beginnings of the historical period, as illustrated by Britain in its European setting. The field covered will be the palæolithic period everywhere, the origins of peasant communities in the Orient and Europe, and a detailed examination of British prehistory and its relations with the Continent, up to the Roman Conquest. Where possible, teaching will be based on a first-hand study of the archæological material in the Department's collection and in the Scottish National Museum. This syllabus constitutes the first year's course for Honours students.

Books recommended :—Le Gros Clark, *History of the Primates* (1949) ; Oakley, *Man the Tool-Maker* (1949) ; Clark, *Archæology and Society* (1939) and *Prehistoric Europe* (1952) ; Atkinson, *Field Archæology* (1953) ; Childe, *Dawn of European Civilisation* (1957) and *Prehistoric Communities of the British Isles* (1947) ; Piggott, *British Prehistory* (1949) ; Fox, *Personality of Britain* (1943).

Reference books :—Zeuner, *Dating the Past* (1950) ; Coon, *Races of Europe* (1939) ; Clark, *Mesolithic Settlement of Northern Europe* (1936) ; Grimes and Savory, *Prehistory of Wales*, Nat. Mus. Wales (1951) ; Childe, *Danube in Prehistory* (1929), *Prehistory of Scotland* (1935) and *Scotland before the Scots* (1946).

Prehistoric Archæology II and III

The class will be held at times to be arranged. The first year's syllabus for Honours Students is the course set out above (Prehistoric Archæology I) with the addition of 3 hours a week in the summer term in archæological field survey, etc. Prehistoric Archæology II and III (3 hours a week) comprise a systematic training in European prehistory and archæological method. In the fourth year students will undertake individual research to be embodied in a thesis, and throughout the course will learn to use original sources in libraries, museums and the field. Students must also work for at least one month continuously during the Easter or summer vacation on an excavation approved by the Professor. The cost of this field-work is likely to be about £20.

Books recommended, in addition to those noted above for the Ordinary Course :—Ebert, *Reallexikon der Vorgeschichte* (1924-32) ; Déchelette, *Manuel d'Archéologie Préhistorique* (1908-14) ; Schaeffer, *Stratigraphie comparée de l'Asie Occidentale* (1948) ; Pitt-Rivers, *Excavations in Cranborne Chase* (1887-98) ; Abercromby, *Bronze Age Pottery* (1912) ; Hawkes, *Prehistoric Foundations of Europe* (1940) ; Schwantes, *Geschichte Schleswig-Holsteins I* (1939) ; Leisner, *Die Megalithgräber der Iberischen Halbinsel* (1943) ; Jacobsthal, *Early Celtic*

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Art (1944) ; Movius, *The Irish Stone Age* (1942) ; Wheeler, *Maiden Castle* (1943) ; Fox, *Llyn Cerrig Bach* (1946) ; Daniel, *Prehistoric Chamber Tombs of England and Wales* (1950) ; Piggott, *Neolithic Cultures of the British Isles* (1954) ; Laming (ed.), *La Découverte du Passé* (1952) ; *Urgeschichte Deutschlands* (1938-53) ; *Danske Oldsager* (1948-) ; Cornwall, *Bones for the Archaeologist* (1956) ; Singer *et al.*, *History of Technology*, vol. i-ii (1954-56).

Departmental Library and Teaching Collections

The Department is at 19-20 George Square where students have access to the class library and teaching collections.

Munro Lectures

The Munro Lectures on Anthropology and Prehistoric Archaeology will be delivered on dates to be announced later.

SOCIAL ANTHROPOLOGY

Dr LITTLE, Reader and Head of Department ; Dr LITTLEJOHN, Dr COLLINS and Dr BANTON, Lecturers

Courses I, II and III qualify for the degree of B.Sc. with Honours in Anthropology (see p. 542).

Social Anthropology I

Mon., Tues., Thurs., and Fri. at 4.

Part I.—Introduction to the Study of Primitive Society (two terms):—General principles and theory ; the biological basis of human society ; the relation between geographical environment and culture ; the ethnography of a selected people ; an outline of marriage, kinship and social organisation among primitive peoples, including economics, land tenure, political organisation, law, education, and magico-religious systems ; the life cycle of the individual in primitive society.

Part II.—Anthropology and Modern Life ; the application of anthropological methods to the study of modern communities, including a short description and analysis of some of the social institutions of urban and rural communities in Western Europe and North America.

Books recommended :—

Part I.—Students should be familiar with two general works and at least two ethnographic monographs.

General works :—Evans-Pritchard, *Social Anthropology* ; Firth, *Human Types* ; Forde, *Habitat, Economy and Society* ; Gluckman, *Custom and Conflict in Africa* ; Hoebel, *Law of Primitive Man*.

Ethnographic monographs :—Evans-Pritchard, *The Nuer*, and *Witchcraft among the Azande* ; Firth, *We, the Tikopia* ; Fortes and Evans-Pritchard, *African Political Systems* ; Little, *The Mende* ; Malinowski, *Coral Gardens and their Magic*, Vol. I ; Nadel, *A Black Byzantium*.

Part II.—Arensberg, *Family and Community in Ireland* ; Pitt-Rivers, *The People of the Sierra* ; Warner, *Structure of American Life* ; Williams, *Sociology of an English Village* ; Whyte, *Street Corner Society* ; Young and Willmott, *Family and Kinship in East London*.

Courses of Instruction (Pure Science)

Social Anthropology II

Dr LITTLEJOHN, Lecturer

The course will consist of two lectures per week, and a weekly discussion class of two hours' duration, at times to be arranged. It will include the course in Applied Anthropology consisting of twelve lectures to be given in the second half of the academic session. Students will be required to submit three essays on a special problem or group of problems ; these must include actual sociological observations in Scottish communities.

Part I.—An Introduction to Anthropological Theory :—Contemporary anthropological theories, with special reference to the historical, diffusionist, configurationist, functional and social structure schools ; the relation of social anthropology to the other social sciences ; the history of ethnological theory.

Part II.—Methods of Field Work :—The importance of theoretical orientation in field work, scope of investigations ; relations with informants ; the danger of subjectivity ; reliability of data and documentation ; practical difficulties ; critical evaluation of field records ; introduction to the study of phonetics and the place of language in field investigations ; field work methods in modern communities.

Part III.—Applied Anthropology :—For synopsis, see below.

Books recommended :—Barnes, *Introduction to the History of Sociology* ; Colson (ed.), *Seven Tribes of British Central Africa* ; Durkheim, *Suicide* ; Evans-Pritchard, *The Nuer*, and *Kinship and Marriage among the Nuer* ; Evans-Pritchard and Fortes, *African Political Systems* ; Firth, *Elements of Social Organisation* ; Leach, *Political Systems of Burma* ; Levi-Strauss, "Social Structure" in *Anthropology Today* (ed. Kroeber) ; Lowie, *History of Ethnological Theory* ; Nadel, *A Black Byzantium* ; Radcliffe-Brown, *Structure and Function in Primitive Society* ; Radcliffe-Brown and Forde, *African Systems of Kinship and Marriage*.

Applied Anthropology

An outline of non-literate culture, including social organisation, nature of religious belief, etc., and a description of anthropological methods in the investigation of the "simpler" societies. The problems arising out of the contact of Western and primitive peoples ; a short description of the impact of European institutions—government, Christian missions, commerce, etc.—on indigenous life and custom in colonial territories. Problems of "de-tribalisation," racial relations, etc., and studies of experimentation in local government, social welfare, "mass education," community development, etc.

Books recommended :—(a) Acquah, *Accra Survey* ; Banton, *West African City* ; Batten, *Problems of African Development*, pts. I and II ; Busia, *Survey of Sekondi-Takoradi* ; Colson, *The Makah Indians* ; Epstein, *Politics in Urban African Communities* ; Gluckman, "Malinowski's Sociological Theories", *Rhodes-Livingstone Papers*, No. 16 ; Hogbin, *Experiments in Civilization* ; Mair, *Applied Anthropology* ; Read, *Education and Social Change in Tropical Areas* ; Ruopp (ed.), *Approaches to Community Development* ; Wilson, *Social Change* ; Worsley, *The Trumpet shall sound*.

(b) Collins, *Coloured Minorities in Britain* ; Frazier, *The Negro in the United States* ; Hankins, *Racial Basis of Civilization* ; Hellman (ed.), *Handbook of Racial Relations in South Africa* ; Hughes, *Where Peoples Meet* ; Lind (ed.), *Race Relations in World Perspective* ; U.N.E.S.C.O., *The Race Question in Modern Science*.

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Social Anthropology III

Details will be announced later.

A seminar on research and applied methods in Social Anthropology will be held weekly and will be open to post-graduate and advanced students at the invitation of the Head of the Department.

FINAL EXAMINATION FOR THE DEGREE OF B.SC. WITH HONOURS IN SOCIAL ANTHROPOLOGY

The examination will consist of four papers (three hours each) in (a) Anthropological Theory; (b) Social Organisation; (c) Field Work Aims, and Methods; and (d) Ethnography. In addition, candidates must submit a short dissertation on a subject agreed upon with the Head of the Department.

GENETICS

PROFESSOR WADDINGTON; Dr CHARLOTTE AUERBACH and Dr BEALE, Readers;
Dr WOOLF, Senior Lecturer; Mrs CLAYTON, Dr SELMAN and Dr KACSER,
Lecturers.

Genetics I

Mon., Tues., Thurs. and Fri. from 9.30 to 12.30, and another period of 3 hours.

The course will deal with the basic facts and concepts of genetics and their implications for general biological theory.

The lectures will cover :—(1) Variation and inheritance, including cytoplasmic inheritance; the chromosome theory of heredity; cytogenetics; mutation. (2) The elements of statistical technique. (3) Population genetics; evolutionary mechanisms. (4) Physiological genetics. (5) Genetics of micro-organisms.

The practical classes will cover the preparation and examination of chromosome material, the examination of segregations in mice and *Drosophila*, experimental embryology, physiological genetics, exercises in genetics and exercises in statistics.

Genetics II

Five days a week, from 9 a.m. to 5 p.m.

This course is for those taking Honours in Genetics. It consists of a more advanced and detailed treatment of Course I. The student will be required to prepare abstracts of selected papers and to present reviews of selected topics. Some degree of specialisation will be allowed.

Among the topics dealt with will be some or all of the following :—
(1) The process of mutation and gene physiology. (2) The processes of embryonic and later development and the influence of the hereditary constitution on them. (3) Life cycles and modes of reproduction and their relation to hereditary mechanism. (4) Sex determination. (5) The genetic nature of evolutionary diversity and the processes by which it has been brought about. (6) Bacterial and virus genetics. (7) Human genetics. (8) Advanced cytogenetics. (9) Heritability of quantitative characters. (10) Mating systems

Courses of Instruction (Pure Science)

and methods of selection in domestic animals. (11) Formal genetics of farm animals. (12) Origin and economic value of British breeds of animals ; and other topics that may be from time to time decided.

A student may, in consultation with the Head of the Department, submit a thesis on a limited piece of directed research in either animal or plant genetics according to his choice.

Institute of Animal Genetics Laboratories and Library

The laboratories are open throughout the year for advanced instruction and research. The laboratory fee for research workers is £25 per annum, or £10 per term.

The Institute accommodates, in addition to the Department of Animal Genetics, the Commonwealth Bureau of Animal Breeding and Genetics (Director, Mr J. P. Maule).

BIOPHYSICS

Dr DAINTY, Reader ; Dr SCOTT, Dr CROGHAN, Dr WILLIAMS,
Dr MALCOLM, Dr JOHNSTON, Lecturers.

Physics for M.B., Ch.B. See p. 148.

Physics for B.D.S. See p. 214.

Physics for B.V.M. & S. See p. 247.

Physics for Forestry. See p. 611.

Lectures and practical work in relation to the above courses are taken in the Department of Natural Philosophy, High School Yards.

The Biophysics Laboratory is situated at West Mains Road, and at present provides accommodation for research only. For particulars of courses of research apply to the Head of the Department of Biophysics.

Faculty of Science

Department of Agriculture

REGULATIONS FOR THE DEGREES OF BACHELOR OF SCIENCE IN AGRICULTURE

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Edinburgh.

Preliminary Qualifications and Admission to Classes

See pp. 528, 577 and Programme of Admission, pp. 3-10.

Ordinary Degree

III. (1) The course of study for the Ordinary degree of Bachelor of Science in Agriculture shall extend to four academical years. Candidates for the Ordinary degree shall, in the course of not less than three academical years, attend at least eight courses of instruction in the subjects prescribed for examination under Section V of this Ordinance. The fourth year of the curriculum shall consist of residence for practical work at the farms of the University of Edinburgh to cover a complete year of seasonal operations.

(2) A candidate shall not be deemed to have attended a course as part of the curriculum for the degree who does not present a certificate stating that he has given regular attendance at and duly performed the work of the course.

(3) It shall be the duty of the Senatus to determine, from time to time, which of the said courses shall be full courses and which shall be partial courses of not less than one term's duration, and also to determine the number of meetings of which such full courses, and partial courses respectively, shall consist, and to report its determination to the University Court for its approval.

IV. A student who, during one or more academical years, has given attendance on classes in any of the subjects (1), (2), (3) enumerated under Section V of this Ordinance, in any one or more of the other Scottish Universities (provided that such classes are recognised for graduation in Science) and who shall have passed the degree examinations prescribed in such other university may be exempted from examination in the corresponding subjects in Edinburgh. Further, the Senatus may extend, under such conditions as they may from time to time prescribe, similar privileges to students who may have been in attendance at other universities specially recognised for the purpose by the University Court.

V. The subjects of study shall be as follows:—(1) Chemistry I; (2) Botany I; (3) Zoology I; (4) Agriculture I (including Crop Husbandry, Agricultural Chemistry and Physics, Surveying); (5) Agricultural Biology I (including Botany, Mycology, Zoology, Entomology, Genetics); (6) Agriculture II (including Animal Husbandry, Veterinary Hygiene, Farm Mechanization, Forestry); (7) Agricultural Economics; (8) Agricultural Biology II (Bacteriology).

VI. There shall be a First examination in the three following subjects of Section V:—(1) Chemistry I; (2) Botany I; (3) Zoology I.

VII. (1) There shall be a Second examination in the following subjects of Section V:—(4) Agriculture I; (5) Agricultural Biology I.

(2) Attendance at courses in the subjects of the Second examination shall not be permitted to any candidate unless he has previously passed in at least

¹ University Court Ordinance No. 88. For the degrees of D.Sc. and M.Sc. see Programme of Special Study and Research.

B.Sc. Regulations (Agriculture)

two of the subjects comprised in the First examination, and holds a class certificate in the third, provided always that the Senatus shall have power to permit the candidate in exceptional circumstances to pursue the courses for the Second examination.

(3) Candidates may present themselves in the subjects of the Second examination only after they have completed the First examination and have attended the required courses in the subjects professed.

VIII. (1) There shall be a Third examination in the remaining subjects specified under Section V, viz. :—(6) Agriculture II ; (7) Agricultural Economics ; (8) Agricultural Biology II.

(2) Candidates may not present themselves in the subjects of the Third examination until they have passed in those of the Second examination.

IX. (1) There shall be a Final examination in practical Agriculture based on the work and instruction of the fourth year.

(2) Candidates must have passed in all the subjects of the Second and Third examinations before presenting themselves for the Final examination.

X. The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power to :—(a) introduce additional subjects into the curriculum ; (b) determine that particular subjects shall, for the purpose of examination, be subdivided or combined ; (c) determine the selection, order, and grouping of the various subjects studied ; (d) fix the standards of the degree examinations, and the conditions of admission thereto : provided always that the University Court shall communicate to the General Council all such regulations, and any representations made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

XI. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Ordinary degree of Bachelor of Science on payment of the fees required, and shall receive a Diploma.

Degree with Honours

XII. The degree of Bachelor of Science in Agriculture may be taken with Honours under the following conditions :—

(1) Candidates shall, during not less than four years, have attended the courses, and passed the examinations for the Ordinary degree of Bachelor of Science in Agriculture.

(2) Subsequent to passing the examinations specified in Subsection (1) of this Section, candidates must have pursued such advanced studies in Agriculture in the University of Edinburgh as the Senatus, with the approval of the University Court, may from time to time appoint.

(3) Residence and practical work at the farms of the University of Edinburgh, additional to that prescribed for the Ordinary degree, shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

(4) The subject of study for the degree with Honours shall be Agriculture III and may be taken in either of the following branches :—(1) Crop Husbandry ; (2) Animal Husbandry.

(5) (i) There shall be three grades of Honours in each branch denominated respectively first, second and third class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(ii) No candidate who has completed an Honours examination in one branch is allowed to present himself a second time for Honours in the same branch.

Faculty of Science

XIII. The award of grades of Honours shall be based on the candidate's performance in such examinations or other tests as shall be prescribed by the Senatus, with the approval of the University Court.

XIV. A candidate who has satisfied the examiners, and has successfully performed the practical courses, shall receive a certificate, stating that he has obtained Honours in Agriculture, and setting forth the branch in which he has presented himself and the class of Honours he has obtained.

Examiners

XVI. The examiners for graduation in Agriculture shall be the Professors in the University whose subjects qualify for graduation in Agriculture, together with such Readers and Lecturers, and such additional examiners, to be appointed by the University Court, as the University Court shall deem necessary. The examinations shall be conducted under regulations framed by the Senatus, subject to the approval of the University Court.

General

XVII. From and after the date at which this Ordinance comes into operation, University Court Ordinance No. CVIII (Edinburgh No. 37—Regulations for Degrees in Science in Agriculture), is hereby repealed; provided always that a student who at the aforesaid date has already commenced his course of study with a view to graduation in Science in Agriculture in Edinburgh under the regulations in force at the time, may complete his course and become a candidate for the degree of Bachelor of Science in Agriculture in conformity with such regulations; provided also that graduates who have obtained the degree of Bachelor of Science in Agriculture under the said University Court Ordinance No. CVIII (Edinburgh No. 37), and who have held the said degree for at least five years, may offer themselves for the degree of D.Sc. under the conditions set forth in Section XV hereof.

XVIII. The degrees of Bachelor of Science in Agriculture and of Doctor of Science conferred under this Ordinance shall not be conferred *honoris causa tantum*, nor on any persons who have not satisfied the conditions hereinbefore set forth, except under the provision contained in University Court Ordinance No. CCXVIII (Edinburgh No. 75—Consolidation and Amendment of Regulations as to Offices of Reader and Lecturer, and Admission to Membership of Senatus and Faculties), Section VIII.

Additional B.Sc. Regulations (Agriculture)

Additional B.Sc. Regulations

Entrance Qualifications

1. Before admission to the curriculum the student shall produce evidence that he has obtained passes in Mathematics, Physics and Chemistry on the higher standard in the Scottish Leaving Certificate or in an equivalent examination.

The student must also provide evidence to the satisfaction of the Director of Studies that he has spent a complete twelve months, covering the four seasons, on an approved farm. A farm will not be recognised as an approved farm unless it provides a full-time training in all seasonal work connected with crops and stock in general, and work with horses and tractors.

Ordinary Degree

2. During the fourth year of the curriculum the student shall be required to reside on the farms of the Edinburgh School of Agriculture from 1st August in the year in which the Third examination has been completed, to 30th June of the following year. The student will be required to work normal farm hours, with normal farm holidays, under supervision, in a number of departments in order to develop his knowledge of the application of the Principles of Agriculture as they affect the work, management and organisation of the farm. A detailed record must be kept of all the work done and will be required by the examiners for the Final examination.

3. The courses of instruction grouped together under subjects (4), (5) and (6) in Section V of the Ordinance shall be considered as separate courses for the purpose of instruction and examination. Failure in a degree examination in any one or more courses shall not entail re-examination in all courses within the subject, but only in those in which the candidate has not reached the pass mark.

4. Before attending the classes of the Agriculture I group in the second year a student must produce a certificate that he has duly performed the work of the class of the History of British Agriculture in the first year. Before sitting the degree examinations of Agriculture II a student must produce a certificate that he has duly performed the work of courses in Colonial Agriculture and Experimental Agriculture.

5. The final examination will consist of a written paper or papers and may also include a practical examination.

Degree with Honours

6. The course in Agriculture III will consist of advanced lectures and exercises in the branch offered. The student will be examined in a general paper covering the whole branch and in a second paper dealing with the section of this field selected for special study. He will also be required to give attendance on and to pass the degree examination in a full course in a cognate subject in one of the Departments of the Faculty of Science. The course for each individual student will be decided by the Professor of Agriculture, the Director of Studies and the Head of the Department in which the cognate subject is to be taken.

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SUBJECTS OF DEGREE EXAMINATIONS

Ordinary Degree

First Examination.—Chemistry I, Botany I, Zoology I, as for Pure Science.

Second Examination.—Agriculture I including Crop Husbandry, Accounting, Agricultural Chemistry and Physics, Surveying; Agricultural Biology I made up of Agricultural Botany including Mycology, Agricultural Zoology including Entomology, Genetics.

Third Examination.—Agriculture II including Animal Husbandry and Farm Management, Veterinary Hygiene, Farm Mechanization, Forestry; Agricultural Economics; Agricultural Biology II (Bacteriology).

Final Examination.—Practical Agriculture based on the work and instruction of the fourth year.

ORDER OF STUDY AND EXAMINATION

Ordinary Degree

Autumn and Spring :—		First Year	
		Days	Hours
Chemistry I (Lectures)	. . . . .	Mon., Wed., Thur., Fri.	9.30-10.30
Chemistry I (Laboratory)	. . . . .	Mon., Thur.	10.30-12.30
Botany I (Lectures)	. . . . .	{ Tues., Thur.	2-3
		{ Sat.	9-10
Botany I (Practical)	. . . . .	{ Tues., Thur.	3-5
		{ Sat.	10-12
Zoology I (Lectures and Practical)	. . . . .	Mon., Wed., Fri.	2-5
History of British Agriculture	. . . . .	Tues.	10-11

Summer :—

Chemistry I (Lectures)	. . . . .	Mon., Wed., Thur., Fri.	9.30-10.30
Chemistry I (Laboratory)	. . . . .	Mon., Thur.	10.30-12.30
Botany I (Lectures)	. . . . .	Tues., Thur.	2-3
Botany I (Practical)	. . . . .	{ Tues., Thur.	3-5
		{ Sat.	9-12
Zoology I (Lectures and Practical)	. . . . .	Mon., Wed., Fri.	2-5
History of British Agriculture	. . . . .	Tues.	10-11

Examinations in Chemistry I, Botany I, Zoology I

Second Year

Autumn and Spring :—

Agriculture I—

Crop Husbandry (spring)	. . . . .	Daily	9-10
Agricultural Chemistry and Physics (Lectures)	. . . . .	Wed., Thur., Fri.	10-11
Agricultural Chemistry and Physics (Practical)	. . . . .	Mon., Fri.	3-5
Accounting (autumn only)	. . . . .	{ Wed., Thur., Fri.	9-10
		{ Tues.	11-1

Agricultural Biology I—

Agricultural Botany (Lectures and Practical)	. . . . .	Tues., Thur.	2-5
Agricultural Zoology and Entomology (Lectures and Practical)	. . . . .	Mon., Wed., Fri.	11-1
Genetics	. . . . .	Mon., Fri.	2-3

Examinations in March in Genetics, Agricultural Zoology and Entomology.

Order of Study

Summer :—

	Days	Hours
Agriculture I—		
Crop Husbandry	Tues., Thur.	9-10
Agricultural Chemistry and Physics (Lectures)	Mon., Wed., Fri.	9-10
Agricultural Chemistry and Physics (Practical)	Tues., Thur.	10-12
Surveying	{ Mon. Wed., Fri.	12-4.30 10.30-4.30
Agricultural Biology I—		
Agricultural Botany (Lectures and Practical)	Tues., Thurs.	2-5
Examinations in June in Crop Husbandry, Agricultural Chemistry, Surveying and Agricultural Botany		

Third Year

Autumn and Spring :—

Agriculture II—		
Animal Husbandry and Farm Management	Daily	10-11
Veterinary Hygiene	Mon., Tues., Wed., Fri.	12-1
Farm Mechanization	{ Tues. Thur.	9-10 9-10, 2-3
Forestry for Agriculture	{ Mon., Fri. Thur.	4-5 12-1
Colonial Agriculture	Mon.	11-12
Agricultural Economics	Mon., Wed., Fri.	9-10
Agricultural Biology II—		
Bacteriology	{ Tues., Wed., Thur. Tues.	11-12 2-4
Examinations in March in Veterinary Hygiene, Forestry and Bacteriology		

Summer :—

Agriculture II—		
Animal Husbandry and Farm Management	Mon., Wed., Fri.	10-11
Agricultural Field Work	Mon.	2-5
Farm Mechanization	{ Mon. Fri. Tues., Thur.	11-12 12-1 9-5
Experimental Agriculture	Wed., Fri.	11-12
Agricultural Economics	Mon., Wed., Fri.	9-10
Examinations in June in Animal Husbandry, Farm Mechanization and Agricultural Economics		

Fourth Year

Residence for practical work at the farms of the University of Edinburgh to cover a complete year of seasonal operations.

Examinations in June—written, oral and practical

DIPLOMA IN RURAL SCIENCE

Candidates for the Diploma must be Ordinary or Honours graduates in Pure or Applied Science other than Agriculture or Horticulture, or have obtained an Honours degree in Economics (of this or any other approved University), and must otherwise satisfy the University of their fitness to enter upon a diploma course. Ordinary graduates in Agriculture or Horticulture of an approved University outside the British Isles desirous of obtaining a training in the principles of British Agriculture or Horticulture may be considered for the Diploma.

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The course of instruction shall extend over one academic year and shall include attendance at lectures and practical work and such farm residence as may be prescribed. A candidate shall have attended a three months' course in practical agriculture or horticulture prior to entry, or show evidence of some practical knowledge of British Agriculture or Horticulture.

Candidates for the Diploma must have their courses of study approved by the Director of Studies in Agriculture.

The Diploma may be taken in two branches, namely Agriculture or Horticulture.

In Agriculture the course of study for the Diploma shall be:—Crop Husbandry; Animal Husbandry; Experimental Agriculture, together with one or more selected courses designed to develop the agricultural applications of the principal subject of the qualifying degree of the candidate. Courses from which selection may be made are in the subjects of:—Chemistry; Biochemistry; Bacteriology; Botany and Mycology; Entomology; Genetics; Veterinary Hygiene; Economics and Accounting as applied to Agriculture.

In Horticulture the course of study for the Diploma shall be:—Horticulture I (Principles); Horticulture II (Advanced); Experimental Horticulture, together with one or more selected courses designed to develop the horticultural applications of the principal subject of the qualifying degree of the candidate. Courses from which selection may be made are in the subjects of:—Chemistry; Biochemistry; Bacteriology; Botany and Mycology; Entomology; Genetics; Economics and Accounting as applied to Horticulture.

An examination will be held at the end of the summer term and will consist of written papers and a practical or oral examination, together with a report on an investigation within the branch professed, which report must be lodged within two weeks before the date fixed for the beginning of the examination. A candidate may not present himself for re-examination for the Diploma in any subject in which he has been examined.

The Diploma will set forth the subjects in the candidate's curriculum.

COURSES OF INSTRUCTION

First Year

CHEMISTRY I (see p. 558)

ZOOLOGY I (see p. 559)

BOTANY I (see p. 560)

THE HISTORY OF BRITISH AGRICULTURE

Tues. at 10 during the three terms. This course outlines the history of agriculture, chiefly in England and Scotland; farming methods practised during the Stone, Bronze and Iron Ages; also the Roman Period; the Anglo-Saxon system of open fields and strip cultivation; the Norman Period with its Manorial and Monastic systems; the break-up of self-sufficient methods and development of commercial farming, the working of enclosed land by individual farmers; the Agricultural Revolution; new crops, improved livestock, better machinery and equipment, improved drainage and manuring; intensive farming of the present century.

Second Year

AGRICULTURE I

CROP HUSBANDRY

PROFESSOR WATSON; Dr GORDON, Senior Lecturer; and Lecturers

Lectures daily at 9 in spring, and on Tues. and Thurs. at 9 in summer; several Sat. forenoon excursions. The course covers: general principles of rotational cropping, including catch cropping; cereals; the potato; root crops; pulses; forage crops, soilage and ensilage; horticultural crops; grassland establishment and utilisation, conservation of fodder.

AGRICULTURAL CHEMISTRY AND PHYSICS

Dr A. M. SMITH and Lecturers

Lectures on Wed., Thurs. and Fri. at 10 in autumn and spring and on Mon., Wed. and Fri. at 9 in summer; laboratory on Mon. and Fri. from 3 to 5 in autumn and spring and Tues. and Thurs. from 10 to 12 in summer. The course covers: 1. Soils—origin, formation, and classification; physical and chemical properties; fertility; analysis and interpretation of results. 2. Fertilisers and manures—classification, manufacture, and composition; specific action; manurial experiment; analysis and valuation; manurial residues. 3. Factors affecting plant growth; composition of plants; enzymes, and their action; carbohydrates, fats, proteins, and pigments; fungicides, insecticides, weed-killers. 4. Animal nutrition—composition, classification, preservation and nutritive values of foods and methods of analysis; principles of nutrition; digestion and metabolism and methods of investigation; vitamins; trace elements; antibiotics; water. 5. Dairy chemistry—composition of dairy products.

The practical work consists of the qualitative examination and quantitative analysis of plant constituents, soils, fertilisers, feeding-stuffs, and dairy produce.

Faculty of Science

ACCOUNTING

Mr M. A. KNOX, Lecturer

Tues. at 11 and Wed., Thurs. and Fri. at 9 in autumn. The course covers:—Farm account books as co-ordinated into an orderly record of business transactions ; determination of profit or loss, with balance sheets and trading account ; use of the ledger and preparation of profit and loss accounts of various types ; special ledger accounts and application to cost accounting ; income tax returns as prepared from the books of account, and the handling of incomplete records in relation to profit or loss determination ; use of accounts for farm management purposes.

SURVEYING

See p. 599

AGRICULTURAL BIOLOGY I

AGRICULTURAL BOTANY

Mr HEDDLE, Mr COBLEY ; and Lecturers

Lectures and practical work on Tues. and Thurs. from 2 to 5 in the autumn, spring and summer. The course deals with the physiology, ecology, morphology and improvement of agricultural crop plants ; grassland ecology ; weeds and weed control ; the more important diseases of economic plants and their methods of treatment and prevention.

AGRICULTURAL ZOOLOGY

Mr MCHARDY, Senior Lecturer ; Dr GUILD, Lecturer

Lectures on Mon., Wed., and Fri. at 11, followed by one hour of practical work, in autumn and spring. The course covers :—The structure, biology, and classification of insects and related arthropods, with particular reference to families of agricultural importance ; the life-histories and control of some of the principal British pests of field and garden crops, stock, and stored produce ; insecticides and fumigation methods ; biological control ; ecological relation of pests to their environment ; other invertebrates, birds, and mammals in relation to agriculture ; methods of collecting and preserving specimens.

Agricultural Zoology Laboratory

The laboratory is open daily during terms for practical work.

Agricultural Zoology Museum

This museum contains a representative collection of invertebrates and vertebrates of economic importance. In addition to the animals, there is a series of specimens showing the damage done by the various species. The

Courses of Instruction (Agriculture)

museum is open to students of the various classes, and to others by arrangement. The Waterhouse Collection of the Coleoptera of Great Britain is now a part of the University equipment in Entomology. Applications from workers in Entomology desirous of consulting this collection should be made to the Head of the Department.

GENETICS IN RELATION TO AGRICULTURE

Sir ALICK BUCHANAN-SMITH and Mr COBLEY, Lecturers

Mon. and Fri. at 2 in autumn and spring. The lectures on Plant Genetics are given on Fri. in the spring term.

The object of the course is to impart a general understanding of (a) the science of genetics as applied to farm crops and livestock and (b) the principles of crop and livestock improvement. The lectures include Mendelism, the genes, the chromosomes, sex-determination, mutation, lethals, probability and variation; variation in crop species, and the methods of improvement of self-fertilised, cross-fertilised and vegetatively propagated crop plants, maintenance of varietal purity; the principles of livestock improvement, introduction of good and elimination of bad characters, systems of breeding, inbreeding and outbreeding, progeny and performance testing, problems of artificial insemination, breed and herd construction, fertility and disease resistance. Throughout the course special emphasis is laid on the inheritance of productivity in the larger farm animals in relation to environment and economic management.

Third Year

AGRICULTURE II

ANIMAL HUSBANDRY and FARM MANAGEMENT

PROFESSOR WATSON; Dr GORDON, Senior Lecturer; and Lecturers

Five lectures a week at 10 in autumn and spring; several Saturday forenoon farm excursions; three class meetings, farm excursions, and one afternoon of field work weekly in summer. The subjects include:—1. Animal nutrition. 2. Farm live stock:—types and breeds of cattle, sheep, horses, pigs and poultry; their breeding, feeding, and management. 3. Dairying:—dairy management; treatment of milk; butter, cheese, etc. 4. Farm Organisation and Management:—The use of land, and the application of labour and capital in the farming business; adaptation of systems to natural and economic conditions; capitalisation, labour requirements, income and expenditure of typical British farms; marketing of farm produce.

COLONIAL AGRICULTURE

Mr J. P. MAULE, Lecturer

Mon. at 11 in autumn and spring. The lectures will deal with:—Climate and agricultural systems in the tropics, with emphasis on peasant agriculture and its improvement; agricultural production in relation to tropical crops and their relative importance for food and export; livestock, their uses, breeding, feeding and management; mixed farming; future prospects in colonial agricultural development.

Faculty of Science

EXPERIMENTAL AGRICULTURE

Dr LAWLEY, Lecturer

Lectures will be given in the summer of the third year of study on Wed. and Fri., at 11. The course covers :—Elementary notions of probability and statistics ; frequency diagrams ; the commoner distributions ; tests of significance and of goodness of fit ; the analysis of variance ; experimental design, randomized blocks, Latin square ; practical applications and numerical technique.

VETERINARY HYGIENE

PROFESSOR ROBERTSON ; Dr E. W. MOODIE, Lecturer

Mon., Tues., Wed. and Fri. at 12, in autumn and spring. The course covers the following subjects :—Elementary anatomy and physiology of farm animals ; general principles of hygiene and their application to the provision of air, water, and housing of farm animals ; hygiene of breeding and pregnancy ; individual care and management ; handling of animals and methods of restraint ; first aid measures ; nursing of sick animals. Disease, nature and causes, prevention and control ; nutritional diseases, harmful and poisonous foods ; stock husbandry in relation to disease control. Diseases of Animals Acts and Orders ; scheduled diseases ; milk and dairies legislation.

FARM MECHANIZATION

Mr L. M. WALKER, Lecturer

Tues. 9-10, Thurs. 9-10 and 2-3 in autumn and spring ; Mon. 11-12, Fri. 12-1, Tues. and Thurs. 9-5 in summer. The object of this course is to impart a general knowledge of engineering as applied to agricultural work, so as to enable students to understand readily the construction, working, and management of the various machines with which they will come in contact. Characteristics of constructional materials. Farm buildings, water supply and drainage. Farm power, machinery, equipment and installation units. The application of these units to form effective combinations in farming enterprises.

FORESTRY FOR AGRICULTURE

Dr MUTCH, Lecturer

Lectures Mon. and Fri. at 4, Thurs. at 12, autumn and spring ; practical work by arrangement. The course of 60 lectures and 80 hours practical instruction, covers :—The history of British Forestry ; silvicultural notes on trees ; nursery work and propagation ; planting and tending of woodlands ; shelter-belts ; protection and fencing of plantations ; measurement of standing crops and felled trees ; felling, conversion, seasoning and preservation of timber ; influence of forests on rainfall ; consequences of destructive exploitation and over-grazing on erosion and water supply.

The ten days' practical Forestry should be taken on the Bush and Dryden estate during the fourth year of the course.

Courses of Instruction (Agriculture)

AGRICULTURAL ECONOMICS

Mr M. A. KNOX, Lecturer

Lectures on Mon., Wed., and Fri., at 9 in autumn, spring and summer. The course consists of lectures on the elements of economic analysis and the application of general principles to the industry of Agriculture. It is closely related to those sections of the course in Agriculture which deal with farm management and organisation.

AGRICULTURAL BIOLOGY II

AGRICULTURAL BACTERIOLOGY

Dr GIBSON, Lecturer

Tues. from 2 to 4, Tues., Wed., and Thurs. from 11 to 12 in autumn and spring. The course, which consists of lectures, practical laboratory-work, and demonstrations, includes an introduction to general bacteriology and a study of the microbiology of soils, manures, feeding-stuffs, milk, and other dairy products, and of the more important diseases of domestic animals and plants.

Fourth Year

PRACTICAL AGRICULTURE

PROFESSOR WATSON ; Dr GORDON, Senior Lecturer ; and Lecturers

Residence and practical work on the farms of the Edinburgh School of Agriculture in order to develop a knowledge and experience of the application of the principles of agriculture as they affect the work, organisation, and management of the various farm enterprises from 3rd August in the year in which the third examination has been completed to 30th June of the following year.

OTHER COURSES

ADVANCED AGRICULTURAL ENTOMOLOGY

Mr McHARDY, Senior Lecturer ; Dr GUILD, Lecturer

Lectures followed by laboratory and field work at hours to be arranged, the minimum being nine hours a week during three terms. This is largely a practical and reading course. Some of the subjects studied are :—The classification of insects, with special reference to families ; detailed life-histories and control of some of the principal insect pests of the world ; technique of field and museum work ; legislation in relation to insect pests ; parasitism ; biological control of insects and plants ; ecology and its practical application ; polyembryony ; principles of systematic entomology ; practical applications of the study of physiology ; tropisms ; bibliographical methods ; literature ;

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technique of the preparation and illustration of reports ; elementary photography as applied to biological work ; insecticides and machinery ; transmission of virus diseases by insects ; industrial entomology (bees, lac, and silk), etc.

ADVANCED ECONOMIC MYCOLOGY

Dr BLYTH, Lecturer

This laboratory course, supplemented by lectures, consists of the more detailed investigation of the diseases of agricultural crops and methods of prevention, and the preparation of cultures of fungi causing disease in plants, and deals with the distribution of certain plant diseases and the legislation in connection with them.

ADVANCED ECONOMIC PLANT GENETICS

The course, which consists of lectures and practical work, deals with the principles of genetics and cytology as applied to agricultural plants.

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DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

I. Two degrees in Science in Engineering may be conferred by the University of Edinburgh under the provisions of this Ordinance, namely : Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). The degree of Bachelor of Science in Engineering may be conferred as an Ordinary degree or as a degree with Honours.

II. Every candidate for the degree of Bachelor of Science in Engineering must, before entering upon the curriculum, satisfy the conditions as to admission to the Scottish Universities for purposes of graduation in Science, as specified under Ordinance of the University Courts No. LXX (General No. 3—Regulations as to Admission to the Scottish Universities for purposes of Graduation) or under any Ordinance passed or to be passed to alter or amend that Ordinance.

Ordinary Degree

III. Candidates for the Ordinary degree of Bachelor of Science in Engineering must during not less than three academical years attend such courses of instruction as are determined from time to time by the Senatus in the subjects which are prescribed under Section IV or which may be prescribed by virtue of Section V, and must pass the examinations prescribed in Section VII.

IV. The subjects of study shall be as follows :—Mathematics, Physics, Chemistry, Engineering, and one or more subjects allied to Engineering Science such as Geology, Metallurgy and Organisation of Industry and Commerce.

V. The Senatus with the approval of the University Court may from time to time make Regulations modifying the provisions of Section IV and shall determine the selection, order and grouping of the subjects and fix the standard of the degree examinations and the conditions of admission thereto, provided always that the University Court shall communicate to the General Council all such Regulations and that any representations made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such Regulations are approved.

VI. (1) Candidates must attend courses of instruction in the University of Edinburgh for not less than two academical years.

(2) The remainder of the courses of instruction may be taken in other Universities or Institutions approved for this purpose by the University Court provided always that these courses shall not, except in such cases as the University Court after consultation with the Senatus may otherwise decide, be other than first courses of instruction.

(3) A student who has attended classes recognised as qualifying for graduation in Engineering in any one or more of the other Scottish Universities and who has passed any of the examinations prescribed in such other Scottish University may be exempted from examination in the first courses in corresponding subjects in the University of Edinburgh. Further, the Senatus may grant, under such conditions as they may from time to time prescribe, similar exemption to students who have been in attendance at other Universities specially recognised for the purpose by the University Court.

VII. There shall be three examinations for the degree of Bachelor of Science in Engineering, namely the First Examination, the Second Examination and the Third Examination.

Faculty of Science

VIII. (1) A candidate may not present himself for examination in any subject until he has attended the prescribed course or courses of instruction therein and has presented a certificate that he has given regular attendance on and duly performed the work of the course.

(2) A candidate may not present himself for examination in any of the subjects of the Second Examination until he has passed in all the subjects of the First Examination or has been exempted therefrom under the provisions of Section VI (3), nor for examination in any of the subjects of the Third Examination until he has passed all the subjects of the Second Examination.

IX. (1) Candidates who produce certificates that they have satisfied all the conditions prescribed by or under this Ordinance and who have passed the prescribed examinations shall be entitled to receive the degree of Bachelor of Science in Engineering on payment of the fees required.

(2) For the degree of Bachelor of Science in Engineering each graduate shall receive a Diploma wherein shall be set forth the branch of Engineering in which the degree has been granted.

Degree with Honours

X. For the degree of Bachelor of Science with Honours in Engineering each candidate, subsequent to passing the examinations referred to in Section VII of this Ordinance (namely those required for the Ordinary degree), must pursue a course of advanced study in Engineering in the University of Edinburgh for one additional academical year and pass the examination referred to in Section XI (3).

XI. (1) There shall be four examinations for the degree of Bachelor of Science with Honours in Engineering, namely the First Examination, the Second Examination, the Third Examination and the Honours Examination.

(2) The First, Second and Third Examinations and the regulations for admission thereto shall be those specified in Section VII and Section VIII. For the purpose of the Honours degree, the Senatus shall have power to admit to the First Examination, notwithstanding the provisions of Section VIII (1), any candidate who under Special Regulations to be made for the purpose by the Senatus is qualified for admission thereto, and thereafter, if he shall have passed the First Examination, to exempt him from attendance on the courses of study prescribed for the First Examination, provided that any such exemption from attendance on courses shall not necessarily carry with it exemption from the payment of fees relating to such courses.

(3) The Honours Examination shall consist of subjects within a prescribed branch of Engineering. All the papers must be taken at one examination.

XII. Only those candidates who show in the courses of the third year a standard of merit approved by the Senatus shall be permitted to proceed to the degree with Honours.

XIII. (1) There shall be three grades of Honours, namely, First, Second and Third Class. The names of candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) A candidate may not present himself for re-examination in Honours in the same branch of Engineering. A candidate who fails to obtain Honours in one branch of Engineering shall not be permitted to present himself for examination in Honours in another branch of Engineering.

XIV. Candidates who produce certificates that they have satisfied all the conditions prescribed by or under this Ordinance and who have passed the prescribed examinations shall be entitled to receive the degree of Bachelor of

B.Sc. Regulations (Engineering)

Science with Honours in Engineering on payment of the fees required, and each graduate shall receive a Diploma wherein shall be set forth the branch of Engineering in which the degree has been awarded and the grade of Honours which he has obtained.

General

XVI. On and after the date at which this Ordinance comes into operation Ordinance No. CXXXIII (Edinburgh No. 44—Regulations for Degrees in Science in Engineering) is hereby repealed, provided always that a student who, at the date when this Ordinance comes into operation, has already commenced a course of study in the University of Edinburgh with a view to graduation in Science in Engineering under the Regulations in force at that time may complete his course and become a candidate for the degree of Bachelor of Science in Engineering in that University in conformity with such Regulations; but if any such student elect to complete his course with a view to graduation under the Regulations made by or under this Ordinance the Senatus shall have power to determine the conditions under which the courses of study pursued and the examination passed by him may be accepted as equivalent to the courses and examinations prescribed by or under this Ordinance.

XVII. The degree of Bachelor of Science in Engineering conferred under this Ordinance shall not be conferred *honoris causa tantum*, nor on any person who has not satisfied the conditions hereinbefore set forth except under the provision contained in University Court Ordinance No. CCXVII (Edinburgh No. 75—Consolidation and Amendment of Regulations as to offices of Reader and Lecturer, and Admission to Membership of Senatus and Faculties), Section VIII.

Faculty of Science

SUBJECTS OF DEGREE EXAMINATION

Ordinary Degree

First Examination (June and Sept.).—Technical Mathematics I (two written papers); Physics (the examination is the same as for Physics I_B for Pure Science; candidates must submit to the examiners properly authenticated records of 50 hours of laboratory work); Chemistry (candidates will be examined by paper, and in the laboratory, on the work of the lecture and laboratory courses).

Second Examination.—Technical Mathematics II; Group 1 (Theory of Structures; Surveying); Group 2 (Heat Engines; Theory of Machines); Group 3 (Hydraulics; Strength of Materials); Group 4 (Electrical Machines; Electronics; Communications); Engineering Graphics.

The degree papers in Technical Mathematics II, Engineering Graphics and Groups 1, 2, 3 and 4 will each be of three hours' duration. Passes in at least three papers of the Engineering subjects must be obtained at one examination. The remaining subjects may be passed separately. A candidate who fails to obtain the requisite passes in three papers will be required to repeat the whole examination.

Final Examination :—(OLD ORDINANCE NO. 44)

Civil Engineering :—Applied Mathematics A; Civil Engineering Design; Civil Engineering Practice; Theory of Structures; Hydraulics; Strength of Materials; Theory of Machines; Surveying II.

Mechanical Engineering :—Applied Mathematics A or B; Mechanical Engineering Design; Heat Engines III; Theory of Machines; Hydraulics; Strength of Materials; Theory of Structures; Electronics and Communications.

Electrical Engineering :—Applied Mathematics B; Electrical Power; Electronics and Communications; Advanced Electricity and Electromagnetism; Hydraulics; Theory of Machines; Heat Engines III; Mechanical Engineering Design.

Honours Degree (OLD ORDINANCE NO. 44)

In addition to the above papers for the Ordinary Degree, the following Honours papers :—Theory of Structures; Hydraulics; Strength of Materials; Theory of Machines; and :—For Civil Engineering—Civil Engineering Design; Civil Engineering Practice. For Mechanical Engineering—Mechanical Engineering Design; Heat Engines III. For Electrical Engineering—Advanced Electricity and Electromagnetism; Electronics and Communications; Electrical Power.

CURRICULA

The following curricula have been arranged for Civil, Mechanical, and Electrical Engineering students :—

First Year

Technical Mathematics I; Physics; Chemistry; Engineering; Engineering Drawing.

Second Year

Technical Mathematics II; Group 1 (Theory of Structures; Surveying); Group 2 (Heat Engines; Theory of Machines); Group 3 (Hydraulics; Strength of Materials); Group 4 (Electrical Machines; Electronics; Communications); Engineering Graphics.

Additional B.Sc. Regulations (Engineering)

Third Year—Ordinary Degree (OLD ORDINANCE No. 44)

Civil Engineering—Applied Mathematics A ; Civil Engineering Design ; together with four subjects chosen from the following, at least one being from Group I. Group I :—Civil Engineering Practice ; Theory of Structures. Group II :—Hydraulics ; Strength of Materials ; Theory of Machines ; Surveying II.

Mechanical Engineering—Applied Mathematics A or B ; Mechanical Engineering Design ; together with four subjects chosen from the following, at least one being from Group I. Group I :—Heat Engines III ; Theory of Machines. Group II :—Hydraulics ; Strength of Materials ; Theory of Structures ; Electronics and Communications.

Electrical Engineering—Applied Mathematics B ; Advanced Electricity and Electromagnetism ; together with four subjects chosen from the following, at least one being from Group I. Group I :—Electrical Power ; Electronics and Communications. Group II :—Hydraulics ; Theory of Machines ; Heat Engines III ; Mechanical Engineering Design.

Third Year—Honours Degree (OLD ORDINANCE No. 44)

Civil Engineering—Applied Mathematics A ; together with four subjects from the following, of which two must be selected from Group I and three (excluding Surveying II) must be studied to the Honours Standard. Group I :—Civil Engineering Design ; Theory of Structures ; Civil Engineering Practice. Group II :—Hydraulics ; Strength of Materials ; Theory of Machines ; Surveying II.

Mechanical Engineering—Applied Mathematics A or B ; together with four subjects from the following, of which two must be selected from Group I and three (excluding Electronics and Communications) must be studied to the Honours Standard. Group I :—Mechanical Engineering Design ; Heat Engines III ; Theory of Machines. Group II :—Hydraulics ; Strength of Materials ; Theory of Structures ; Electronics and Communications.

Electrical Engineering—Applied Mathematics B ; Advanced Electricity and Electromagnetism ; together with three subjects from the following, of which one must be selected from Group I and three (excluding Mechanical Engineering Design) must be studied to the Honours Standard. Group I :—Electronics and Communications ; Electrical Power. Group II :—Hydraulics ; Heat Engines III ; Theory of Machines ; Mechanical Engineering Design.

In addition all Honours Engineering candidates will choose one additional subject from the following :—Soil Mechanics ; Servomechanisms ; Research Methods ; Geology ; Solid State Electronics ; Nuclear Engineering ; Design of Electric Power Plant ; Metallurgy.

Selection of Students for Honours.—The performance of all Engineering students during the first two years of the course will be reviewed by the Examiners after the results of the September examinations are known. Only those students whom the Examiners consider competent to undertake Honours will be allowed to proceed to the Honours degree.

Faculty of Science

ORDER OF STUDY

First Year

Autumn and Spring :—

	Days	Hours
Technical Mathematics I	{ Mon., Thur.	9-10
	{ Mon. Wed., Fri.	10-11
Physics (Lectures)	Mon., Wed., Fri.	11-12
Physics (Laboratory)	Thur.	10-12
Physics (Tutorial)	Wed.	9-10
Chemistry (Lectures)	{ Mon., Thur.	1-2
	{ Tues.	11-12
Chemistry (Laboratory)	Mon.	2-5
Engineering (Lecture)	Tues.	10-11
Engineering (Laboratory and Tutorial)	Tues.	11-12
Engineering Drawing (Lecture)	Tues.	2-3
Engineering Drawing (Drawing Office)	Tues.	3-4.30

Summer :—

Technical Mathematics I	Mon., Wed., Thur.	10-11
Physics (Lectures)	Mon., Wed., Fri.	11-12
Physics (Laboratory)	Fri.	9-11
Physics (Tutorial)	Wed.	9-10
Chemistry (Lectures)	{ Mon., Thur.	1-2
	{ Tues.	11-12
Chemistry (Laboratory)	Mon.	2-5

Second Year

Autumn, Spring, and Summer :—

Technical Mathematics II	{ Tues.	9-10
	{ Thurs.	9-10
	{ Tues.. . . .	10-11 (Tutorial)
Group 1		
Theory of Structures	{ Fri.	9-10
Surveying	{ Fri.	10-11
Group 2		
Heat Engines	{ Thurs.	10-11
Theory of Machines	{ Wed.	9-10
Group 3		
Hydraulics	{ Mon.	9-10
Strength of Materials	{ Wed.	10-11
Group 4		
Electrical Machines	{ Mon.	10-11
Communications and Electronics	{ Tues.	12-1
	{ Thurs.	11-12
Engineering Graphics	Thurs.	2-3
Engineering Laboratories and Drawing Office	{ Mon. 11-1; Wed. 11-1	
	{ Thurs. 3-5; Fri. 11-1	
	{ (Autumn and Spring)	
	{ Fri. 11-1 (Summer)	

Order of Study

	Days	Hours
Third Year—Ordinary Degree		
Applied Mathematics A (autumn and spring)	{ Mon. Tues. Thur., Fri.	9-10 10-11 11-12
Applied Mathematics B (autumn and spring)	{ Mon. Tues., Thur. Wed.	12-1 9-10 10-11
Theory of Structures	{ Tues. Wed.	9-10 10-11
Hydraulics	{ Tues. Mon.	11-12 10-11
Strength of Materials	{ Fri. Fri.	12-1 9-10
Theory of Machines	{ Fri. Wed.	10-11 11-12
Civil Engineering—		
Civil Engineering Design	{ Wed. Thur.	11-12 9-10
Civil Engineering Design (Drawing Office)	Tues.	2-5
Civil Engineering Practice	{ Mon. Wed.	11-12 9-10
Surveying II	{ Tues. Thur.	12-1 4-4.45
Civil Engineering Laboratory (aut. and spring)	Mon., Fri.	2-5
Mechanical Engineering—		
Mechanical Engineering Design	Mon.	2-2.45
Mechanical Engineering Design (Drawing Office)	Mon.	2.45-5
Heat Engines III	{ Mon. Tues.	11-12 12-1
Mechanical Engineering Laboratory (autumn and spring)	Tues., Fri.	2-5
Electrical Engineering—		
Electrical Power ¹	{ Thur. Fri.	11-12 12-1
Electronics and Communications	{ Wed. Thur.	9-10 4-4.45
Advanced Electricity and Electromagnetism	{ Wed. Fri.	12-1 9-10
Electrical Engineering Laboratory ¹ (autumn and spring)	Mon., Fri.	2-5
Third Year—Honours Degree		
Applied Mathematics A (autumn and spring)	{ Mon. Tues. Thur., Fri.	9-10 10-11 11-12
Applied Mathematics B (autumn and spring)	{ Mon. Tues., Thur. Wed.	12-1 9-10 10-11
Theory of Structures	{ Mon. Tues. Wed.	12-1 9-10 10-11
Hydraulics	{ Mon. Tues. Thur.	10-11 11-12 10-11
Strength of Materials	{ Wed. Fri. Fri.	12-1 12-1 9-10
Theory of Machines	{ Wed. Thur. Fri.	11-12 12-1 10-11

¹ The course is taken at the Heriot-Watt College.

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Additional Subject (Soil Mechanics, etc.)	Days Thur.	Hours 2-3
Civil Engineering—		
Civil Engineering Design	{ Wed. Thur.	11-12 9-10, 12-1
Civil Engineering Design (Drawing Office)	{ Mon. Tues.	2-5 2-5
Civil Engineering Practice	{ Mon. Wed. Thur.	11-12 9-10 3-4
Surveying II	{ Tues. Thur.	12-1 4-4.45
Civil Engineering Laboratory (aut. and spring)	Mon., Fri.	2-5
Mechanical Engineering—		
Mechanical Engineering Design	Mon., Tues.	2-2.45
Mechanical Engineering Design (Drawing Office)	Mon., Tues.	2.45-5
Heat Engines III	{ Mon. Tues. Thur.	11-12 12-1 3-4
Mechanical Engineering Laboratory (autumn and spring)	Mon., Fri.	2-5
Electrical Engineering—		
Electrical Power ¹	{ Thur. Tues.	12 10-11
Electronics and Communications	{ Wed. Thur.	9-10 4-4.45
Advanced Electricity and Electromagnetism	{ Mon., Fri. Wed.	9-10 12-1
Electrical Engineering Laboratory (autumn and spring)	Mon., Fri.	2-5

Under the new Engineering Ordinance No. 108 the curricula will be as follows :—

THIRD YEAR

Five subjects to be chosen from :—

(a) *Civil Engineering*

Theory of Structures *
Civil Engineering Design *
Strength of Materials
Hydraulics
Civil Engineering Practice
Soil Mechanics

(b) *Mechanical Engineering*

Theory of Machines
Mechanical Engineering Design
Strength of Materials
Hydraulics
Heat Engines
Control Systems and Electrical
Measurement

* Compulsory Subjects

(c) *Electrical Engineering*

Electrical Theory
Electrical Plant
Electronics
Communications
Servo-mechanisms

together with one additional subject such as (i) Geology, (ii) Architecture, (iii) Organisation of Industry and Elementary Accounting, (iv) Nuclear Engineering

¹ The course is taken at the Heriot-Watt College.

Order of Study

(v) Metallurgy, (vi) Computing Machines and Programming, (vii) Physics of Solids.

Potential Honours students will, in addition, require to take a course in Technical Mathematics extending over the Third and Fourth Years.

FOURTH YEAR

Candidates must study to Honours standard four of the subjects listed under (a), (b) and (c) of the Third Year. Of these, all must have been previously taken to the Ordinary level.

Faculty of Science

DIPLOMA IN ELECTRONICS AND RADIO

1. Candidates for the diploma must be Honours graduates in Electrical Engineering, Mathematics, or Physics, of this or of any other approved university. In exceptional cases, however, the Senatus may approve other qualifications which they consider adequate.

2. Candidates for the diploma must attend for one academical year of full-time study, and must have their courses approved by the Director of Studies.

3. The course shall include lectures and a prescribed investigation in the following fields :—

- (1) Electromagnetics.
- (2) Networks (including valve and transistor circuits).
- (4) Physical Electronics.
- (4) Servomechanics

4. The examination will be held at the end of the summer term and will consist of written papers and an oral examination. One copy of a typed thesis on the prescribed investigation must be lodged by the 1st June and will be retained by the University. The award of the Diploma will be based on both the examination and the thesis. Only in special circumstances will a candidate be allowed to repeat the course.

5. The fee for the diploma is £55.

DIPLOMA IN APPLIED DYNAMICS

1. Candidates for the Diploma must be Honours graduates in Engineering, Mathematics, or Physics of the University of Edinburgh or of any other approved university. In exceptional cases, other qualifications may be accepted with the approval of the Senatus.

2. Candidates for the Diploma must attend for one academical year of full-time study.

3. The course of instruction shall include lectures and experimental work. Lecture courses will be given in the following subjects :—

- (1) Mechanical Vibration.
- (2) Gyrodynamics.
- (3) Theory of Control Systems.

Each candidate shall also carry out a limited investigation of a prescribed problem in the field of Applied Dynamics.

4. The examination, which will be held at the end of the summer term, shall consist of written papers and an oral examination. Two copies of a typed thesis on the prescribed problem must be lodged by 1st June and will be retained by the University. The award of the Diploma will be based on both the examination and the thesis. A candidate who fails to obtain the Diploma will be allowed to repeat the course only in exceptional circumstances.

5. The fee for the Diploma is £55

COURSES OF INSTRUCTION

CHEMISTRY

• • •, Lecturer

Lecture Course

Mon. and Thurs. at 1 and Tues. at 11 during the three terms. The course involves a study of Elementary Inorganic and Organic Chemistry, including :— (a) Elementary Chemical Theory ; (b) the Chemistry of the more important metallic and non-metallic elements and their chief compounds, with special attention to water, fuels, combustion, metals, and alloys used in technical practice, lubricants, and materials commonly used in engineering construction work ; Electrochemistry and corrosion studies.

Laboratory Course

Mon. from 2 to 5 during the three terms. This is taken with the lecture course. The work will include :—(a) Volumetric and gravimetric analysis ; (b) systematic qualitative inorganic analysis ; (c) experiments to illustrate special chemical problems met with in engineering practice.

PHYSICS IB (see p. 552)

TECHNICAL MATHEMATICS

Dr L. M. BROWN, Senior Lecturer ; Mr MACKENZIE, Dr FULTON,
and Mr LUCAS, Lecturers

The courses in Technical Mathematics are specially for engineering and technological students.

First Course

Mon. and Thurs. at 9, and Mon., Wed., and Fri. at 10 in autumn and spring ; and Mon., Wed., and Thurs. at 10 in summer. The work includes :— Solution of equations, elementary theory of equations, determinants, the binomial theorem, application of graphs to algebraic and numerical problems ; trigonometry with applications to mensuration, complex numbers, hyperbolic functions ; co-ordinate geometry of the straight line, circle and plane : differential calculus with applications to errors, rates, stationary values and curve tracing ; introduction to integral calculus with applications to areas and volumes ; expansion of functions as power series.

Second Course

Wed. (King's Buildings) and Fri. (Math. Inst. at 9, and Thurs. (King's Buildings) and Fri. (Math. Inst.) at 10, in autumn and spring ; and Mon., Thurs. (King's Buildings) and Fri. (Math. Inst.) at 9 in summer. The work includes :—Systematic integration, line integrals, double integrals, with applications to polar co-ordinates, lengths, areas, volumes, centroids, mean values and second moments ; partial differentiation ; ordinary differential equations ; curvature ; numerical methods of integration ; interpolation and solution of equations.

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APPLIED MATHEMATICS

Dr L. M. BROWN, Senior Lecturer ; Mr MacKENZIE, Dr FULTON,
and Mr LUCAS, Lecturers

Course A

Mon. at 9, Tues. at 10, Thurs. and Fri. at 11 in autumn and spring. The principles of dynamics ; Fourier series ; simple partial differential equations ; applications to the dynamics of particles, rigid bodies and simple elastic structures.

Course B

Mon. at 12, Tues. and Thurs. at 9 and Wed. at 10 in autumn and spring. The subjects of the course will be selected from the following :—The solution of differential equations by the Laplace transform and in series ; Gamma and Bessel functions ; Fourier series and integrals ; partial differential equations ; line integrals, multiple integrals and vector analysis ; analytic functions, conjugate harmonic functions and conformal representation. The course will include applications to technical problems of the selected topics.

ENGINEERING

PROFESSOR ARNOLD ; Dr STEWART and Mr PATTERSON, Senior Lecturers in Engineering Drawing ; Dr DAVIDSON, Senior Lecturer in Heat Engines ; Mr FARVIS, Senior Lecturer in Applied Electricity ; Dr WARBURTON, Senior Lecturer ; Dr MELTZER, Senior Lecturer ; Mr DUDGEON, Mr HUNTER, Dr ROBSON, Mr MELVIN, Mr MACLEAN, Dr PATTEN, Dr MAUNDER, Mr C. W. DAVIDSON, Mr DAVIES, Dr BARR, and Mr CHRISTIE, Lecturers.

First Year

Engineering Drawing

Tues. at 2 in autumn and spring.

Geometric drawing ; plans, elevations and sections of solids ; interpenetration ; development ; elements of machine drawing ; elements of structural drawing.

Tues. at 3 in autumn and spring in Engineering Drawing Office.

Engineering

Tues. at 10 in autumn and spring. Introductory lectures covering the various branches of engineering.

Tues. at 11 in autumn and spring. Instruction in the Engineering Laboratories.

Second Year

Theory of Structures

Fri. at 9 in autumn, spring and summer.

Forces, moments and couples ; funicular polygon ; shear force ; bending moment ; slope and deflection diagrams ; method of sections ; rolling loads ; introduction to influence lines.

Courses of Instruction (Engineering)

Surveying

Fri. at 10 in autumn, spring and summer.

Instruments and adjustments; chain surveying; levelling; contouring; compass traversing; theodolite traversing; plotting by co-ordinates; volumes of earth-works; curve ranging; compound and reverse curves; tacheometric surveying; setting out of works.

Heat Engines

Thurs. at 10 in autumn, spring and summer.

Properties of vapours and gases; thermodynamic principles, processes and ideal cycles; elementary heat transfer; applications of thermodynamics to an analysis of the performance of different types of practical heat engines.

Theory of Machines

Wed. at 9 in autumn, spring and summer.

Kinematics; simple mechanisms; gear trains. Laws of motion for translation and rotation; inertia forces, momentum, impulse, work, energy. Balancing of rotating masses; friction, clutches and brakes; fluctuation of energy, flywheels; governors. Vibration of single degree of freedom systems. Motion in three dimensions, gyroscopes.

Hydraulics

Mon. at 9 in autumn, spring and summer.

Properties of fluids; measurement of pressure; forces on submerged bodies. Bernoulli's theorem and applications; discharge from orifices and weirs; flow in pipes; hydrodynamic forces; introduction to hydraulic machines.

Strength of Materials

Wed. at 10 in autumn, spring and summer.

Stress, strain and their relationship; thin shells under pressure; torsion of bars; stresses and deflections of beams with and without redundant constraints; Euler theory of columns. Experimental stress analysis, mechanical properties and testing of materials.

Electrical Machines

Mon. at 10 in autumn, spring and summer.

Magnetic fields and forces, composite magnetic circuits, permanent magnets; torque, measuring instruments. Introduction to a.c. and d.c. machines, types of d.c. motor and their characteristics. Single-phase transformer; introduction to 3-phase working and the induction motor.

Communications and Electronics

Tues. at 12 and Thurs. at 11 in autumn, spring and summer.

Steady-current networks, two wire distribution; capacitance, the electrostatic field; induced e.m.f., simple transients; introduction to alternating currents, impedance, phasor and complex-number representation; resonant circuits, Q-factor; electro-mechanical analogues. Simple transmission lines and wave propagation; modulation, elements of information theory. Thermionic and solid-state devices and circuits, electronic measurements, the cathode ray oscilloscope.

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Engineering Graphics

Thurs. at 2 in autumn, spring and summer.

Force diagrams; deflection, velocity and acceleration diagrams; graphical integration with applications; Mohr's circle for stress and inertia; harmonic analysis; responses of vibratory systems; field plotting; geometric inversion; balancing of rotating masses; induction motor circle diagram; nomographs.

Third Year

HYDRAULICS

Ordinary.—Mon. at 10 and Tues. at 11.

Dimensional analysis and model experiments; resistance of parallel sides of conduits; analysis of pipe networks; open channel flow; water hammer; hydraulic machines.

Honours.—Thurs. at 10.

Fluid flow; irrotational flow; viscosity and lubrication; boundary layer and flow resistance, etc.

STRENGTH OF MATERIALS

Ordinary.—Fri. at 9 and at 12.

Continuous beams; theory of struts; Clerk Maxwell's theorem and applications; strain energy methods of stress analysis; Castigliano's 1st and 2nd theorems; unsymmetrical bending; beams with large initial curvature; bending in the plastic range; beams with elastic supports; fatigue of metals.

Honours.—Wed. at 12.

Flexure of flat plates; membrane stress of symmetrical shells; generalised equations for plane stress and strain; elastic theory of torsion and bending; photo-elasticity.

THEORY OF MACHINES

Ordinary.—Wed. at 11 and Fri. at 10.

Free, damped and forced vibration of simple systems; self-induced vibration; vibration of multi-mass systems; whirling of shafts; centrifugal stresses in discs and cylinders; balancing of radial and in-line engines. Elementary consideration of motion in three dimensions; mechanics of gearing.

Honours.—Thurs. at 12.

Dynamics of gyroscopes; Lagrange's equations and applications; vibration of systems of several degrees of freedom; natural frequencies of elastic bodies; vibration with non-linear characteristics; vibration absorbers; inertia forces in mechanisms.

Courses of Instruction (Engineering)

CIVIL ENGINEERING PRACTICE

Ordinary.—Mon. at 11 and Wed. at 9.

Technology of civil engineering materials ; essentials of engineering including railways, roads, sewerage, water supply, tunnelling, etc.

Honours.—Thurs. at 3.

Advanced aspects of civil engineering practice including regulation and control of water ; seepage, dams, pavements, etc.

HEAT ENGINES III

Ordinary.—Mon. at 11 and Tues. at 12.

Characteristics of I.C. engine working substance ; variable specific heats and energy charts ; ignition and combustion processes in I.C. engines ; multi-stage reciprocating compressors ; refrigeration ; elementary gas turbine theory ; theory of impulse reaction steam turbines ; reheating and feed-heating steam cycles ; steam condensing plant.

Honours.—Thurs. at 3.

Dimensional analysis ; thermodynamics ; fluid flow and heat transmission ; heat pump ; gas turbine theory ; steam turbine and I.C. engine plant analysis.

SURVEYING II

Tues. at 12 and Thurs. at 4.

Transition and vertical curves ; curves in tunnels ; marine surveying. The figure of the earth ; tidal phenomena ; astronomical observations ; tacheometry ; base line measurement ; probable errors ; Gauss's error curve ; theorem of least square ; probable error of arithmetic mean.

CIVIL ENGINEERING DESIGN

Ordinary.—Wed. at 11 and Thurs. at 9.

In the drawing office the student is required to design structures to given specifications. The submitted designs must include completely dimensioned working drawings, calculations, and weights and quantities.

The structures dealt with vary each year and are those common to civil engineering, such as :—Road and railway bridges, roofs and workshops, crane girders, retaining walls, timber bridge on piles, bridge piers and abutments, etc.

Honours.—Thurs. at 12.

The design of reinforced concrete beams, slabs, columns and footings. Complete designs selected from the following will also be given in detail :—Columns, floors and stairs of buildings ; grillage and pile foundations ;

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cantilever and counterforted retaining walls ; slab, T-beam, through-deck girder, arch and rigid-frame bridges ; water tank and towers and pre-stressed concrete elements.

THEORY OF STRUCTURES

Ordinary.—Tues. at 9 and Wed. at 10.

Portals and portal trusses ; elastic weights ; the application of influence lines to various types of trusses, including trusses with subdivided panels, and to fixed and continuous girders ; Castigliano's theorem, Maxwell's law, Williot and Mohr diagrams, deflections of structures ; three-pinned arches (rib and spandrel braced) and their influence lines. Principle of work and least work.

Honours.—Mon. at 12.

Statically indeterminate structures ; arches and rigid frames ; moment distribution ; slope deflection ; etc.

MECHANICAL ENGINEERING DESIGN

Ordinary.—Mon. at 2.

Working stresses for static, dynamic and fluctuating loads.

Design of components such as brackets ; levers and pins ; flanges ; cylinders ; shafts ; pipes ; plates and covers ; coupling rods, etc., under various conditions of loading ; design of complete machines to given specifications.

Honours.—Tues. at 2.

More advanced aspects of design relating to machines and mechanisms.

ELECTRONICS AND COMMUNICATIONS

Ordinary.—Wed. at 9 and Thurs. at 4.

Components and materials, valves, thermionic emission, the photo-electric cell and electron multiplier. Tuned and coupled circuit analysis. Thévenin's theorem, valve equation, load lines, the valve amplifier, input and output impedance. Feedback theory, oscillators, mixers, modulation and demodulation. Transmitters, receivers ; frequency, phase and amplitude modulation systems. Circuitry principles. Noise, acoustics and ultrasonics. Direction-finding, radar principles and television. The magnetron and klystron generators. Mercury arc rectifiers. V.H.F. principles and measurements.

Honours.—Tues. at 10.

Introduction to electron optics ; telephone line transmission theory ; filters ; radio communication principles and measurements.

Courses of Instruction (Engineering)

ADVANCED ELECTRICITY AND ELECTROMAGNETISM

Ordinary.—Wed. at 12 and Fri. at 9.

Oscillating systems, oscillatory transients ; network theory ; use of Laplace transforms ; analysis of unsymmetrical 3-phase systems ; non-sinusoidal waveforms ; harmonic analysis ; A.C. bridges ; the A.C. potentiometer ; principle of inversion applied to electrical problems ; field plotting ; elements of transmission line theory ; surges ; dielectric phenomena ; cables and bushings ; penetration of alternating current and magnetic flux ; induction and eddy-current heating.

Honours.—Mon. at 9.

Maxwell's electromagnetic equations, the wave equation, impedance concept in radiation ; reflection, refraction and absorption of electromagnetic energy. More advanced network theory. Revision of kinetic theory, distribution laws, discharge in gases, theory of the ionosphere, theory of dielectrics. Introduction to aeriels theory, waveguide theory and propagation. Principles of accelerator machinery.

Engineering Laboratories

The Engineering Laboratories have varied functions. They provide means by which the student can satisfy himself in regard to the validity of the theoretical principles which are presented to him in lectures, and by which he can examine the strength and other properties of materials used in engineering practice.

In the Laboratory, the student learns to appreciate the limitations which are inherent in theoretical formulæ and to gain some knowledge of experimental technique. The latter is of inestimable value whatever his ultimate position in engineering may be. Both in research and in development a knowledge of experimental method is essential. It is rarely that a designer is able to complete a project without resorting to some specific experiment from which design data can be obtained. Advanced students are encouraged to undertake original investigations of a limited nature, while facilities for research are available for those entering for the Ph.D. degree.

Engineering Library

This library, which includes the transactions of a number of the leading engineering societies in Great Britain and America, is housed in the Engineering buildings, and is available as a reference library for engineering students.

ELECTRICAL POWER (Heriot-Watt College)

PROFESSOR SAY ; and Lecturers

Ordinary.—Thurs. at 11 and Fri. at 12.

Induction machines, synchronous machines, D.C. machines, single-phase motors. Polyphase and instrument transformers ; the mercury arc rectifier. Principles of servomechanisms. Generating station lay-out and economics.

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Cables, overhead lines. Power system calculations, symmetrical components. Switchgear, protection. Instruments.

Honours.—Thurs at 12.

Theory of windings, commutation in D.C. and A.C. machines. Phase advancers and slip regulators ; 3-phase commutator motors. Synchronous machines : two reaction theory, transients. Cross-field machines. Mercury arc inverters and D.C. transmission. Circuit-breaker theory, unsymmetrical fault calculations. Stability of interconnected systems. Surges : theory, impulse testing, protection.

Additional Honours Subjects.—Nuclear engineering ; solid-state electronics ; servo-mechanisms.

Department of Forestry

DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

I. A degree of Bachelor of Science in Forestry may be conferred by the University of Edinburgh.

Preliminary Qualifications and Admission to Classes

See Programme of Admission, pp. 3-9.

Ordinary Degree

III. (1) Candidates must in the course of not less than three academical years attend all the courses of instruction in subjects prescribed for examination under Section VII of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half-courses respectively, and also to determine the number of meetings of which such full courses and half-courses respectively shall consist, and to report its determination to the University Court for approval.

(3) Residence and practical work in forests shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

IV. All the courses prescribed under Section VII must be taken within the University of Edinburgh with the exception of the first Science courses, viz. 1 to 4 inclusive, which may be taken in other universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Forestry; provided that the fees for attendance at an approved institution in Edinburgh, or under a recognised teacher there, shall not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

A student who, during one or more academical years, has given attendance on classes in any of the subjects 1, 2, 3, and 4 enumerated under Section VII of this Ordinance, in any one or more of the other Scottish Universities (provided that such classes are recognised for graduation in Science), and who shall have passed the degree examinations prescribed in such other university, may be exempted from examination in the corresponding subjects in Edinburgh.

[Further, the Senatus may extend, under such conditions as they may from time to time prescribe, similar privileges as regards examinations to students who have been in attendance at other universities specially recognised for the purpose by the University Court.]

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by students of the University, a right to the use of the Library of the University.

VI. The University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that the courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh where such exist.

¹ University Court Ordinance No. 132. For the degrees of D.Sc. and M.Sc. see Programme of Special Study and Research.

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VII.¹ The subjects of study shall be as follows :—1. Chemistry ; 2. Botany ; 3. Zoology ; 4. Physics ; 5. Geology ; 6. Forestry I (Silviculture, Forest Protection, and Forest Mensuration and Valuation) ; 7. Forest Botany ; 8. Forest Engineering ; 9. Forest Soil Science ; 10. Forest Influences and Meteorology ; 11. Surveying (Engineering Field Work) ; 12. Forestry II (Advanced Silviculture, Forest Management, Forest Policy, Law and Administration, Forest Economics) ; 13. Forest Utilisation, including Chemistry of Forest Products ; 14. Forest Pathology ; 15. Forest Zoology.

VIII. (1) It shall be competent to the University Court to modify from time to time the provisions as to the curriculum hereinbefore contained, in case such modification be rendered desirable by the development of Forestry Science, or in consequence of further provision having been made within or without the University for the study of any branch of the said Science : Provided that in no case shall the number of full courses required be less than the number required for the degree of B.Sc. in Pure Science, Ordinary degree, as specified in University Court Ordinance No. 91.

(2) The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power to :—

(a) Determine the selection, order, and grouping of the subjects enumerated under Section VII of this Ordinance.

(b) Fix the standards of the degree examinations, and the conditions of admission thereto.

Provided always that the University Court shall communicate to the General Council all such regulations, and that any representations made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

IX.¹ (a) (1) There shall be a First Science examination in the four following subjects viz. (1) Chemistry ; (2) Botany ; (3) Zoology ; (4) Physics.

(2) Candidates may present themselves in any one or more of the subjects of the First Science examination at any examination held after they have attended a full course in the subject or subjects professed.

(b) (1) There shall be a Second Science examination in subjects (5 to 11 inclusive) specified in Section VII hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science examination, and have attended the required courses in the subjects professed, provided these examinations are taken in the order prescribed by the Senatus, with the approval of the University Court.

X.¹ (1) There shall be a Third Science examination in the remaining subjects (12 to 15 inclusive) specified in Section VII hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the Second Science examination, and have attended the required courses in the subjects professed, provided these examinations are taken in the order prescribed by the Senatus, with the approval of the University Court.

XI. A candidate for the degree of Bachelor of Science in Forestry shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

¹ Altered by the Senatus, with the approval of the University Court, under Section VIII of this Ordinance, in February, 1952.

B.Sc., Regulations (Forestry)

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Forestry, on payment of the fees required.

Degree with Honours

XIII. The degree of Bachelor of Science in Forestry may be taken with Honours under the following conditions :—

- (1) (Altered by the Senatus, with the approval of the University Court, under section VIII of this Ordinance, in January 1953. See Additional Regulations, below.)
- (2) Subsequent to passing the examinations specified in sub-section (1) of this section, the candidate must have for at least one year pursued such advanced studies in Forestry in the University of Edinburgh as the Senatus, with the approval of the University Court, may from time to time appoint.
- (3) For the degree with Honours, residence and practical work in forests shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.
- (4) There shall be three grades of Honours, to be respectively denominated first, second, and third class. The names of the candidates in each class shall be arranged in alphabetical order.

XIV. Candidates who have satisfied the Examiners, and have successfully performed the practical courses, shall receive a certificate, stating that they have received Honours in Forestry, and setting forth the subjects in which they have studied.

ADDITIONAL REGULATIONS

Degree of Bachelor of Science in Forestry

Ordinary Degree.—In addition to passing the necessary examinations in the subjects specified in Section VII, candidates for the degree of B.Sc. in Forestry must attain a satisfactory standard in Advanced Practical Forestry.

Degree with Honours.—The candidate during not less than three years must have attended the courses and passed the examinations for the Ordinary degree of B.Sc. in Forestry, and in addition have reached a satisfactory standard in the following subjects :—Forest Pathology, Forest Zoology, Forest Soil Science, Utilisation and Forestry II. (This regulation replaces XIII (1), above.)

Faculty of Science

ORDER OF STUDY AND EXAMINATION

First Year			
Autumn :—	Days	Hours	
Chemistry (Lectures)	Mon., Wed., Fri.	9.30-10.30	
(Laboratory)	Mon., Thur.	10.30-12.30	
(Tutorial)	Thurs.	9.30-10.30	
Physics (Lectures)	Tues.	10-11	
(Tutorial)	Fri.	11-12	
(Laboratory)	Fri.	12-1	
Zoology (Lectures and Practical)	Mon., Wed., Fri.	2-5	
Botany (Lectures)	{ Tues., Thur.	2-3	
	{ Sat.	9-10	
Botany (Practical)	{ Tues., Thur.	3-5	
	{ Sat.	10-12	

Spring :—

Chemistry (Lectures)	Mon., Wed., Fri.	9.30-10.30
(Laboratory)	Mon., Thur.	10.30-12.30
(Tutorial)	Thurs.	9.30-10.30
Physics (Lectures)	Tues.	10-11
(Tutorial)	Fri.	11-12
(Laboratory)	Fri.	12-1
Zoology (Lectures and Practical)	Tues.	11-1
	Mon., Wed., Fri.	2-5
Botany (Lectures)	{ Tues., Thur.	2-3
	{ Sat.	9-10
Botany (Practical)	{ Tues., Thur.	3-5
	{ Sat.	10-12

A short Practical Forestry course is taken during the Easter vacation.

Summer :—

Chemistry (Lectures)	Mon., Wed., Fri.	9.30-10.30
(Laboratory)	Mon., Thurs.	10.30-12.30
(Tutorial)	Thurs.	9.30-10.30
Physics (Lectures)	Tues.	10-11
(Tutorial)	Fri.	11-12
(Laboratory)	Fri.	12-1
Zoology (Lectures and Practical)	Tues.	11-1
	Mon., Wed., Fri.	2-5
Botany (Lectures)	{ Tues., Thur.	2-3
Botany (Practical)	{ Tues., Thur.	3-5

Examinations in Chemistry, Physics, Botany and Zoology.

A short Practical Forestry course is taken during the summer vacation.

Second Year

Autumn :—

Silviculture I	Daily	9-9.45
Forest Influences and Meteorology	Mon., Wed., Fri.	9.50-10.35
Forest Engineering	{ Tues., Wed., Fri.	10.40-11.25
	{ Thur.	9.50-10.35
Forest Engineering (Drawing)	Thur.	10.40-12.15
Forest Botany (including Practical)	Mon., Fri.	2.30-5
Forest Soil Science (including Practical) ¹	Tues., Thur.	2-5
Geology	Mon., Wed., Fri.	12-1
Economics	Tues.	9.50-10.35

¹ At the School of Agriculture.

Additional B.Sc. Regulations (Forestry)

Spring :—	Days	Hours
Silviculture II	Daily	9-9.45
Forest Engineering	Daily	9.50-10.35
Forest Engineering (Drawing)	Wed., Thur.	10.40-11.25
Examination in February in Forest Engineering.		
Forest Botany (including Practical)	{ Tues. Thur. Fri.	2-5 2.30-5
Forest Soil Science (including Practical) ¹	Mon.	2-5
Geology	Mon., Wed., Fri.	12-1
Forest Protection	Tues.	10.40-11.25

Examinations in Forest Botany and Geology.

A Practical Forestry course is taken during the Easter vacation.

Summer :—		
Forest Mensuration and Valuation	Mon., Tues., Thur., Fri.	9-9.45
Forest Utilisation	{ Tues. Thur. Wed.	9.50-10.35 9-9.45
Practical Forestry	Thur.	2-5
Forest Soil Science ¹	Tues.	2-5
Tropical and Sub-Tropical Forest Trees	{ Mon. Tues., Thur.	9.50-11.25 10.40-12.10
Surveying	{ Mon. Wed., Fri.	12-4.30 10.30-4.30

Examinations in Surveying, in Forestry I (Silviculture, Forest Influences and Meteorology, Protection and Mensuration and Valuation), and in Forest Soil Science.

A Practical Forestry course is taken during the summer vacation.

Third Year

Autumn :—		
Silviculture III	Daily	9-9.45
Advanced Mensuration	{ Mon., Tues., Wed., Thur.	9.50-10.35
Forest Management	Daily	10.40-11.25
Tropical and Sub-Tropical Forestry	Tues., Wed., Fri.	11.30-12.15
Forest Pathology	Tues., Thur.	2-5
Chemistry of Forest Products ¹	Mon.	2-3
Forest Zoology (including Practical)	{ Mon. Thur. Fri.	3-5 12-1 2-5
Forest Economics and Accounting	Fri.	9.50-10.35

Spring :—		
Informal Instruction in Management and other Forestry subjects.	{ Mon., Tues., Wed., Thurs. Fri.	9-9.45 11.30-12.15 9.50-10.35
Tropical and Sub-Tropical Forestry	Tues., Wed., Thur., Fri.	10.40-11.25
Forest Utilisation	{ Mon. Tues. Fri.	11.30-12.15 9-9.45
Forest Policy, Law, and Administration	Tues., Wed., Thur.	9.50-10.35
Care and Maintenance of Tools and Equipment	Mon.	10.40-11.25
Forest Pathology	Mon.	2-5
Chemistry of Forest Products ²	Thur.	2-5

¹ At the School of Agriculture.

² At the Forestry Department.

Faculty of Science

Spring continued:—

	Days	Hours
Forest Zoology (including Practical)	Tues.	2-4
	Thur.	12-1
	Fri.	2-5
Forest Economics and Accounting	Wed.	11.30-12.15
	Fri.	9.50-10.35

Examination in Forestry II (Advanced Silviculture, Management, Utilisation including Chemistry of Forest Products, Tropical and Sub-Tropical Forestry, Forest Policy, Law and Administration, Forest Economics and Accounting), Forest Pathology and Forest Zoology.

Summer :—The (Advanced) Practical Forestry Course is taken during this term.

Course in Tropical and Sub-Tropical Forest Trees

It is recommended that all students should take the extra course in Tropical and Sub-Tropical Forest Trees during the second year of the course for the degree of B.Sc. in Forestry as it is a useful preparation for the course given in Tropical and Sub-Tropical Forestry in the third year.

DIPLOMA IN FORESTRY

Candidates for the diploma must be graduates in Forestry of an approved university other than the University of Edinburgh, desirous of obtaining further training in the principles of forestry, or must otherwise satisfy the Senatus of their fitness to enter upon a diploma course.

The course of instruction shall extend over one academical year of full-time study, and shall include attendance at lectures and practical work as may be prescribed. The curriculum shall be in accordance with the syllabus of the Honours Course in Forestry and must be approved by the Professor of Forestry.

The assessment of candidates will be based on written papers, together with a thesis, and an oral examination on a prescribed subject. The thesis must be lodged at least two weeks before the completion of the course. A candidate may not present himself for re-examination for the diploma.

The diploma will set forth the candidate's curriculum including the prescribed subject.

The fee for the Diploma is £55.

COURSES OF INSTRUCTION

BOTANY I (see p. 560)

PHYSICS

Dr WILLIAMS, Lecturer

Lectures on Tues. at 10 and Fri. at 11, and tutorial on Fri. at 12, during the three terms, and laboratory work on Tues. from 11 to 1 in spring and summer. This special course for Forestry students includes fifty lectures and thirty hours of laboratory work. Students taking this course require a pass in Mathematics on the higher standard or its equivalent.

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; and Lecturers

Lectures on Mon., Wed., and Fri. at 9.30, with an obligatory tutorial class on Thurs. at 9.30. A general knowledge of the subjects required for the Entrance examination in Chemistry is assumed. A pass in an admission examination is required, unless the student has a pass on the higher standard in Science (including Chemistry) in the Leaving Certificate of the Scottish Education Department, or some equivalent evidence of proficiency. The subjects treated in the lectures will include :—The Chemistry of the common metallic and non-metallic elements ; an introduction to Organic Chemistry ; an introduction to Physical Chemistry.

Laboratory course, in conjunction with the lectures, on Mon. and Thurs. from 10.30 to 12.30. The work will include :—Volumetric and gravimetric analysis ; systematic qualitative analysis ; reactions of simple organic compounds.

ZOOLOGY

PROFESSOR SWANN, and Lecturers

The Zoology I course in Pure Science (see p. 559).

FORESTRY

PROFESSOR ANDERSON, and Lecturers

Lecture Courses, etc.

I

(1) **FIRST SILVICULTURE** (Dr FAIRBAIRN).—Daily from 9 to 9.45 in autumn. The lectures cover :—Forestry terms ; basis of silvicultural practice ; growth of trees ; environment in relation to tree growth ; influence of climate on tree growth ; origin and examination of soils ; pure, mixed, even-aged and uneven-aged forest stands ; characteristics of hardwood and coniferous species ; woodlands of the British Isles ; comparison of general forest conditions in temperate and tropical regions.

(2) **SECOND SILVICULTURE** (Mr FINLAYSON).—Daily 9 to 9.45 in spring. The course covers :—nursery practice ; artificial formation of forest stands ; subsequent tending operations ; tools and equipment ; mechanisation ; tree classifications ; seed collection and extraction.

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(3) **FOREST INFLUENCES AND METEOROLOGY** (* * *).—Mon., Wed. and Fri. 9.50 to 10.35 in autumn. The course covers :—(a) Meteorological theory. Synoptic meteorology. Methods used in the study of climatology. Practical demonstrations of instruments. (b) Effects of forests on climate, soil and water conservation. Shelterbelts. Afforestation of dunes, eroded land and catchment areas.

(4) **FOREST PROTECTION** (* * *).—Tues. 10.40-11.25 in spring. The course covers: Atmospheric influences (frost, insolation, wind, snow, rime, inundation and lightning); fire; effects of chemical impurities in the atmosphere, smoke and furnace fumes; man and domestic animals (destruction of forest, damage to forest, theft and destruction of forest produce, encroachment).

(5) **FOREST MENSURATION AND VALUATION** (Dr TAYLOR).—Mon., Tues., Wed. and Thurs., 9 to 9.45 in summer. The course covers :—Instruments used in forest mensuration ; units of measurement ; measurement of single trees, felled and standing ; determination of age, volume and increment of single trees ; stem analysis ; volume determination of stands of trees ; construction and use of volume tables ; use of yield tables ; sampling and enumeration methods as applied in practice ; methods of valuing timber, trees and stands.

Thurs. from 2 to 5 in summer :—Methods of mensuration and enumeration in actual stands are demonstrated and practised.

II

(6) **THIRD SILVICULTURE** (PROFESSOR ANDERSON).—Daily from 9 to 9.45 in autumn. The course covers :—Structure of trees and tree nutrition ; reproduction ; structure of stands ; trees in relation to soil and climate ; natural associations of trees and plants ; pioneer and climax species ; silvicultural features of the common tree species ; tending fellings ; improvement fellings ; regeneration fellings ; the clear-felling, shelterwood and selection treatment methods and their modifications ; coppice and coppice-with-standards ; temporary treatments ; transformations and conversions ; preparation of the area to be regenerated ; treatment of soil-covering and underwood ; miscellaneous improvement and maintenance operations.

(7) (a) **FOREST MANAGEMENT AND MANAGEMENT PLANS** (PROFESSOR ANDERSON).—Daily from 10.40 to 11.25 in autumn. The course covers :—Forestry as an industry ; objects of management ; definitions of silvicultural and economic terms used in management ; growth of stands ; exploitability ; choice of silvicultural systems ; sustention ; reserves ; normal and actual growing stock ; yield and revenue ; methods of yield regulation ; preparation of management plans for forests varying in character from fully managed forests to waste land being afforested ; the Dedication Scheme ; examples of British and Continental management plans as applied to even-aged and uneven-aged forests examined.

(b) **INFORMAL INSTRUCTION** (Lecturers)—Mon., Tues., Wed., Thurs. from 9 to 9.45, Fri., 11.30-12.15 and Mon. from 9.50 to 10.35 in spring. Informal

Courses of Instruction (Forestry)

instruction in, combined with discussions on, silviculture, economics, mensuration and management, including the study, analysis and criticism of actual management plans.

(c) Preparation of detailed management plan for an extensive forest area (see Sixth (Advanced) Practical Course).

(8) **ADVANCED MENSURATION** (Dr TAYLOR).—Mon., Tues., Wed. and Thurs., from 9.50 to 10.35 in autumn. The course covers :—Determination of averages and relationship of variables ; determination of increment of whole stands ; tree and site classification ; assessment of normality ; construction of yield tables ; permanent sample plots ; simple statistical methods and their application ; assessment of age and density ; methods of sampling ; growing-stock enumerations.

(9) **FOREST ECONOMICS AND ACCOUNTING** (Dr MUTCH).—Tues. and Fri. at 9.50 in autumn and Wed. at 11.30 and Fri. at 9.50 in spring. The course covers :—Distinctive features of forestry ; the principle of interest payments ; forestry production ; exploitation per cent and yield ; soil value and expectation value of the growing stock ; the rotation and its determination ; economics of thinning and regeneration ; overhead costs ; valuation of the forest.

(10) **TROPICAL AND SUB-TROPICAL FORESTRY**.—(a) Dr FAIRBAIRN—Tues., Wed., and Fri. 11.30-12.15 in autumn. Geography of tropical and sub-tropical forest regions ; climate, geology and soils ; vegetation and forest types ; review of developments in policy, administration and economics in the various political units.

(b) Dr TAYLOR—Tues., Wed., Thurs., and Fri. 10.40-11.25 in spring. Forest policy, legislation and organisation as it affects silviculture and management in tropical and sub-tropical countries ; tropical and sub-tropical silviculture including afforestation ; provision for research ; land use and forest management ; protection, including erosion control.

(11) **FOREST UTILISATION** (Mr HARRISON and Dr SMITH).—(a) Utilisation. Mon., Tues., 11.30-12.15 and Fri. 9-9.45 in spring ; Tues. and Thurs., 9.50-10.35, Fri. 9-9.45 in summer. Extraction, conversion and use of timber ; various extraction agencies, timber slides, chutes, flumes, ropeways, forest tramways ; conversion by sawing into lumber and cutting into plywood and pulpwood ; seasoning ; various preservative treatments ; various forest industries and utilisation of minor forest products.

(b) **Chemistry of Forest Products**. Mon. from 2 to 3 in autumn and Thurs. from 2 to 5 in spring. The course covers :—Factors affecting plant growth ; composition of plants ; enzyme action ; chemistry of forest products including cellulose, manufacture of paper, and other industrial products ; essential oils ; tannins ; rubber ; distillation of wood and preservation of timber ; fungicides and insecticides. The practical course deals with examination of plant products—wood ash, wood pulp, essential oils, and products of distillation of wood.

(12) **FOREST POLICY, LAW AND ADMINISTRATION** (PROFESSOR ANDERSON).—Tues., Wed., and Thurs. from 9.50 to 10.35 in spring.

Faculty of Science

Basis of forest policy ; protective, productive and secondary functions of forests ; forest policy in relation to national policy ; forest conservation ; economic development of the forest ; sustention, maximum production and maximum benefit ; progressive benefit ; the managed forest ; forests in being and under construction ; management plans ; contents of a national forest policy ; forest policy in Great Britain ; private forestry, present position.

Forests as property ; basis of law ; rights and obligations ; persons and things ; contracts ; delicts ; possession and ownership ; restrictions and ownership rights ; servitudes ; classification of property ; objective and limitations of forest law ; forms of forest ownership ; state and private forestry ; legal protection of forests ; powers and duties of bodies administering forest law ; co-ordination with general law ; taxation and rates ; tree owners' legal obligations ; land tenure.

General aims in administration ; decentralisation and uniformity in administration ; delegation of responsibility ; central organisation ; local organisations ; technical training ; specialist staff ; research work ; business procedure within the organisation ; dealing with third parties.

Practical Courses

First Year

FIRST PRACTICAL COURSE (Easter vacation).—A course of three weeks, which includes general nursery management ; preparation of planting area ; planting operations ; maintenance of fences and drains.

SECOND PRACTICAL COURSE (summer vacation).—A course of three weeks, which includes general nursery practice ; weeding and cleaning ; brashing and pruning ; general estate work ; other forestry operations in woodlands.

Second Year

THIRD PRACTICAL COURSE (Easter vacation).—Three weeks at Dunkeld. Costing studies of actual nursery and other forest operations, including planting, thinning and felling, undertaken by the students.

FOURTH PRACTICAL COURSE (summer vacation).—Three weeks at Dunkeld devoted to description and enumeration of a series of compartments ; preparation of detailed map of the area.

FIFTH PRACTICAL COURSE (summer vacation).—Three weeks spent in visiting managed woodlands in Great Britain and, if practicable, on the Continent. The silviculture and methods of working these areas are examined in detail in their relationship to varying locality conditions.

Third Year

SIXTH (ADVANCED) PRACTICAL COURSE.—Three months in Continental and British forests from March to June. Detailed examination of the silviculture and methods of working in these forests, both broadleaved and coniferous ; preparation of a detailed management plan for an extensive forest area.

During the winter of the third year excursions are undertaken on Saturdays in order to study commercial aspects of forestry ; sawmilling ; paper making ; furniture making and other related industries.

Courses of Instruction (Forestry)

General Note.—Students are required to keep diaries of all practical work upon which they are engaged and to send in such detailed reports as may be prescribed by members of the staff from time to time.

GEOLOGY (*i.e.*, Geology for Applied Science ; see p. 563)

FOREST SOIL SCIENCE (College of Agriculture)

Dr A. M. SMITH, Lecturer

Tues. and Thurs. from 2-5 in autumn, Mon., 2-3 in spring, and Tues., 2-5 in summer. The course includes origin, formation and classification of soils ; physical and chemical properties ; fertility ; analysis and interpretation of results ; special characteristics of forest soils ; litter, humus layer and underlying rock ; relation between soil type and forest type ; soil improvers and use of fertilisers. The practical course consists of analysis of soils and fertilisers.

FOREST BOTANY

Mr COUSENS, Lecturer

The class meets on Mon. and Fri. from 2.30 to 5 in autumn, and on Tues. and Thurs. from 2 to 5 and Fri. from 2.30 to 5 in spring. There are sixty meetings, with excursions. The course deals with :—The vegetation and flora of forests ; their relation to edaphic and atmospheric conditions ; the characteristic organographical (including anatomical) and physiological features of forest trees, native and cultivated, in Great Britain, both in their seedling and their mature stage ; the systematic position of these trees ; the structure of the more important timbers.

TROPICAL AND SUB-TROPICAL FOREST TREES

Mr COUSENS, Lecturer

Thirty meetings on Mon. from 9.50 to 11.25, and on Tues. and Thurs. from 10.40 to 12.10, in summer. The course deals with the systematic position, distribution, and timber value of the chief tropical and sub-tropical trees.

FOREST ENGINEERING

Mr HARRISON, Lecturer

Tues., Wed., and Fri. at 10.40-11.25, and Thurs. from 9.50 to 12.15 in autumn ; daily from 9.50 to 10.35 and Wed. and Thurs. from 10.40 to 11.25 in spring. The course deals with the following subjects : Timbers, stones, natural and artificial ; limes and cements, composition and preparation of mortars, concrete, etc. ; brick and stone masonry ; forest buildings, types, construction and design ; roads, alignments, construction and maintenance ; retaining walls ; quarrying ; bridges and culverts, types, construction and design ; water supplies ; river training works.

Practical instruction in Drawing will be given covering the design of simple bridges and buildings.

Faculty of Science

SURVEYING

Mr FINLAYSON, Lecturer

Mon. at 12 and Wed. and Fri. at 10.30 in summer. The course includes :—Field and drawing office work on simple methods of surveying suitable for forestry, vegetation surveys, soil and water conservation, forest roads, nurseries, etc.; practical work on the use of the chain, prismatic compass and Abney level; demonstration of plane table surveying, accurate levelling and the use of the theodolite; elementary theory of aerial surveying; photo-interpretation.

FOREST PATHOLOGY

Mr COUSENS, Lecturer

Tues. and Thurs. from 2 to 5 in autumn, and on Mon. and Tues. from 2 to 5 in spring. The course consists of thirty lectures and practical work. The course deals with :—The principal families of the fungi and bacteria which cause disease in plants; consideration of parasitism; specialisation of species; conditions encouraging disease; predisposition; immunity; production of resistant varieties; description of the more important tree diseases; methods of treatment and prevention; diseases and rotting of timber.

FOREST ZOOLOGY

Mr GIFFORD, Lecturer

Autumn: lectures, followed by practical work, on Mon. at 3, Thurs. at 12, Fri. at 2; and spring: Tues. at 2, Thurs. at 12, Fri. at 2. The course covers :—The structure, biology, and classification of insects and related arthropods, with particular reference to families of importance in Forestry; the life histories and control of some of the principal forest pests; insecticides; biological control; ecological relation of pests to environment; other invertebrates, birds, and mammals in relation to Forestry; methods of collecting and preserving specimens.

Forestry Museum

The museum contains representative specimens of timber of the conifer and hardwood trees grown in Britain. There are large collections of wood specimens of the important tropical and sub-tropical forest trees. The collection also includes exhibits showing various aspects of Forestry.

HONOURS COURSE IN FORESTRY

Two subjects will be taken, namely, a principal subject selected from subjects 1 to 4 and a secondary subject selected from subjects 1 to 9. Examinations in both subjects will be held in March and in addition a thesis dealing with some special aspect of the principal subject will be submitted by the end of August. A Final Oral examination with reference to this thesis will be held in September.

The course covers three terms the third of which is spent in a forest, or forests, at home or abroad on field work in connection with the principal subject, combined, or not combined, with field work related to the secondary subject.

Courses of Instruction (Forestry)

FORESTRY

PROFESSOR ANDERSON ; and Lecturers

1. Silviculture

Problems in connection with the silviculture of indigenous tree species ; behaviour of exotic tree species under British conditions ; biology of the decomposition of the litter and humus layers ; studies in retrogression and progression of site-types in forest stands ; light intensity studies in forest stands ; the growth of tree species in relation to exposure ; construction and effect of shelter-belts and forest edgings ; development and treatment of irregular stands ; study of group clear-felling and group-selection systems.

2. Forest Management and Management Plans

The scope of forest management ; methods of increment determination in even-aged and uneven-aged forests ; correlation between silvicultural system and management method ; normal stocking in even-aged forests ; ideal stocking in uneven-aged forests ; detailed studies of yield regulation in Continental practice—France, Germany, Sweden and Switzerland ; management of estate and farm forests and shelter-belts : application of modern management procedure in British forestry ; effect of mechanisation on forest management ; special points in forest management as practised in India and in Commonwealth and Tropical countries.

3. Forest Influences, Protection and Administration

1. Erosion and denudation ; history of destruction of forests throughout the world, and the subsequent effects of erosion and inundation. 2. Recorded instances of the damage done to large forest areas by insect and fungus attack, and steps introduced to combat them. 3. The protection of forests from acts of man and animals. 4. Examination of means taken to protect different types of forests in varying situations from danger by wind and gales, cold and hot winds, frost, snow, etc. 5. The effect on forests of fumes from factories, and the measures utilised to combat it.

4. Forest Economics

Distinctive features of forestry as an enterprise ; economics of estate forestry and of small woodlands ; interest payment principle in forestry ; calculation of interest and interest payment capacity ; production in forestry ; increment determination ; exploitation per cent ; possible yield ; stumpage value ; overhead costs ; soil value and expectation value ; calculations in respect of normal forest ; determining exploitability and rotation length ; economics of thinning and regeneration ; forest valuation for various purposes.

5. Forest Utilisation

A study of methods of extraction of forest produce as applied (a) under Continental and British forestry conditions and (b) under American and Canadian forestry conditions. A study of the factors affecting the choice of extraction methods and their economic application in forests at home and abroad. A study of timber-using industries and related industries using major

Faculty of Science

and minor forest products. Construction, working and management of machines, including self-propelled vehicles and machines used in road-making. The application of power, machinery, equipment and installations in forestry enterprises.

6. FOREST SOIL SCIENCE (School of Agriculture)

Dr A. M. SMITH, Lecturer

This course of tutorial, laboratory and field work at times to be arranged is devoted to an extended study of Forest Soil Science with special reference to conditions in the forest.

7. ADVANCED ECONOMIC PATHOLOGY

Mr COUSENS, Lecturer

The course consists of the detailed theoretical and practical examination of selected diseases of forest trees, and of the rots of felled timber.

8. ADVANCED FOREST ZOOLOGY

Mr GIFFORD, Lecturer

Students taking this course would normally attend lectures and work in the entomological laboratory during the autumn and spring terms combined with extended studies involving practical work and entomological investigations in the forest during the summer term.

This is largely a reading and practical course.

9. TROPICAL AND SUB-TROPICAL FOREST TREES

Mr COUSENS, Lecturer

A course of lectures and laboratory work devoted to an extended study of the systematic position and natural distribution of tropical and sub-tropical forest trees.

Department of Mining

DEGREE OF BACHELOR OF SCIENCE¹ IN MINING

Three degrees in Science in Mining may be conferred, viz. Bachelor of Science (B.Sc.), Master of Science (M.Sc.) and Doctor of Science (D.Sc.). The degree of Bachelor of Science in Mining may be conferred as an Ordinary degree or as a degree with Honours.

II. For the purpose of advising the University authorities on matters connected with the said degrees, the University Court shall appoint an Advisory Committee of persons experienced in Mining and kindred subjects.

III. The Board of Studies appointed under the provisions of Section II, Ordinance No. 42 (General No. 14), shall consist of such members of the Senatus and Readers and Lecturers in the University, of such Professors of the Heriot-Watt College not exceeding two in number, and of such members not exceeding four in number, of the Advisory Committee (Section II) as the Senatus may from time to time select, and the Senatus shall appoint one of the members of the Board to be Convener thereof.

Preliminary Qualifications and Admission to Classes

See Programme of Admission, pp. 3-9.

Ordinary Degree of Bachelor of Science

V. (1) Candidates for the Ordinary degree of Bachelor of Science in Mining must, during not less than four academical years, attend not less than fifteen courses of instruction in the subjects prescribed for examination under Section VII of this Ordinance.

(2) In addition to fulfilling the conditions laid down in Sub-section (1), candidates must spend in practical work at mines a period or periods amounting in all to at least six months under such conditions as the Senatus, with the approval of the University Court, shall from time to time prescribe.

VI. (1) Ten courses must be taken, during not less than three academical years, in the University of Edinburgh. For this purpose the University takes power to recognise such classes in the Heriot-Watt College as it may select as being equivalent to classes held in the University.

(2) The remainder of the said courses may be taken in other universities or institutions approved by the University Court, or under teachers recognised by the University Court, for purposes of graduation in Mining.

(3) The Senatus may accept, under such conditions as they may, with the approval of the University Court, from time to time prescribe, examinations passed at such universities or institutions as have been approved by the University Court under Sub-section (2).

VII. The courses of study shall be as follows:—(1, 2) Two courses in Technical Mathematics; (3) Natural Philosophy, including laboratory work; (4) Chemistry, including laboratory work; (5) Geology; (6) Economic Geology; (7) Engineering Drawing; (8, 9) two courses in Engineering; (10) Assaying; (11) Mine Surveying; (12, 13, 14, 15) four courses in Mining.

¹ University Court Ordinance No. 56. For the degrees of D.Sc. and M.Sc. see Programme of Special Study and Research.

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VIII. (1) The Senatus, with the approval of the University Court, may from time to time (a) modify the provisions as to the curriculum laid down in Section VII hereof; (b) determine by regulations the selection, order, and grouping of the subjects enumerated under Section VII of this Ordinance. Provided always that the University Court shall communicate to the General Council all such modifications and regulations proposed, and that any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such modifications or regulations are approved.

(2) The Senatus, by regulations made from time to time with the approval of the University Court, shall fix the standards of the degree examinations and the conditions of admission thereto.

IX. No candidate may present himself for examination in a subject of the curriculum unless he has attended a full course in that subject, and no candidate shall be deemed to have attended a class who does not present a certificate bearing that he has regularly attended the class and has duly performed the work thereof.

X. (1) There shall be four examinations for the degree of Bachelor of Science in Mining, viz. the First, Second, Third, and Final examinations.

(2) The subjects of the First examination shall be Technical Mathematics I, Natural Philosophy (with laboratory work), and Chemistry (with laboratory work).

(3) The subjects of the Second examination shall be Technical Mathematics II, Engineering Drawing, Engineering, and Mining I.

(4) The subjects of the Third examination shall be Geology I, Mining II, and Mining III.

(5) The subjects of the Final examination are the remaining subjects of the prescribed curriculum.

(6) No candidate may present himself for examination in any of the subjects of the Second examination until he has passed the whole of the First examination, nor for examination in any of the subjects of the Third examination until he has passed the whole of the Second examination, nor for the Final examination until he has passed the whole of the Third examination.

XI. Candidates who produce certificates that they have satisfied all the conditions prescribed under this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Mining on payment of the fees required, and shall receive a diploma setting forth the subjects in respect of which the degree is granted.

Degree of Bachelor of Science with Honours

XII. Candidates for the degree of Bachelor of Science in Mining with Honours shall, in addition to the courses specified in Section VII of this Ordinance, attend courses or half-courses in Mine Surveying (Mine Surveying II), Organisation of Industry, Electrical Engineering, Metallurgy, and Oil Mining.

XIII. (1) Candidates for the degree with Honours must, during not less than four academical years, attend not less than 18 courses of instruction in the prescribed subjects, two half-courses being held as equivalent to one course.

(2) Of these 18 courses, not less than 12 must be taken in not less than three academical years in the University of Edinburgh. For this purpose the University may recognise such classes in the Heriot-Watt College as it may select as being equivalent to classes held in the University.

XIV. (1) The Senatus, with the approval of the University Court, may from time to time (a) modify the provisions as to the curriculum laid down in Section XII hereof; (b) determine by regulations the selection, order, and

B.Sc. Regulations (Mining)

grouping of the subjects enumerated under Sections VII and XII of this Ordinance. Provided always that the University Court shall communicate to the General Council all such modifications and regulations proposed, and that any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such modifications or regulations are approved.

(2) The Senatus, by regulations made from time to time with the approval of the University Court, shall fix the standards of the degree examinations and the conditions of admission thereto.

XV. The provisions of Sections V (2), VI (2) and (3), IX, and X (being here held to refer to the extended curriculum prescribed for the degree with Honours) shall apply to the degree with Honours.

XVI. Only those candidates who show in the Third examination a degree of merit approved by the Senatus in each case shall be permitted to proceed to the Final examination for the degree with Honours.

XVII. (1) There shall be two grades of Honours, denominated respectively first and second class. The names of candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) A candidate may not present himself for re-examination in Honours in the subjects of the Final examination.

(3) A candidate who has failed to be placed in either class may be recommended for the Ordinary degree.

XVIII. Candidates who produce certificates that they have satisfied all the conditions prescribed under this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Mining with Honours, on payment of the fees required, and the graduate shall receive a diploma setting forth all the subjects in respect of which the degree is granted.

Faculty of Science

SUBJECTS OF DEGREE EXAMINATIONS

Candidates for the degree of B.Sc. in Mining take the following examinations :—

First Year	Second Year	
Technical Mathematics I (June and Sept.)	Tech. Mathematics II	} June and Sept.
Chemistry (June and Sept.)	Mining I	
Natural Philosophy (June and Sept.)	Engineering II and III	
	Engineering Graphics	
Third Year	Fourth Year	
Geology I (June and Sept.)	Economic Geology (March and Sept.)	
Mining II (March and Sept.)	Assaying I and II (May and Sept.)	
Mining III (June and Sept.)	Mining IV (March and Sept.)	
Metallurgy ¹ (May and Sept.)	Mine Surveying I (June and Sept.)	
	Mine Surveying II ¹ (June and Sept.)	
	Oil Mining ¹ (March and Sept.)	
	Electrical Engineering ¹ (March and Sept.)	
	Organisation of Industry ¹ (March and Sept.)	

A merit certificate in the practical examination may exempt from the corresponding degree practical examination in Geology I.

¹ For the degree with Honours.

Additional B.Sc. Regulations (Mining)

ORDER OF STUDY

First Year

Autumn and Spring :—

	Days	Hours
Technical Mathematics I	{ Mon., Thur.	9-10
	{ Mon., Wed., Fri.	10-11
Natural Philosophy (Lectures)	Mon., Wed., Fri.	11-12
Natural Philosophy (Laboratory)	Thur.	10-12
Natural Philosophy (Tutorial)	Wed.	9-10
Chemistry (Lectures)	{ Mon., Thur.	1-2
	{ Tues.	11-12
Chemistry (Laboratory)	Mon.	2-5
Engineering (Lecture)	Tues.	10-11
Engineering (Laboratory and Tutorial)	Tues.	11-12
Engineering Drawing (Lecture)	Tues.	2-3
Engineering Drawing (Drawing Office)	Tues.	3-4.30

Summer :—

Technical Mathematics I	Mon., Wed., Thur.	10-11
Natural Philosophy (Lectures)	Mon., Wed., Fri.	11-12
Natural Philosophy (Laboratory)	Fri.	9-11
Natural Philosophy (Tutorial)	Wed.	9-10
Chemistry (Lectures)	{ Mon., Thur.	1-2
	{ Tues.	11-12
Chemistry (Laboratory)	Mon.	2-5

Second Year

	Days	Hours
Technical Mathematics II	Tues., Thur.	9-10
Technical Mathematics II (Tutorial)	Tues.	10-11
Mining I ¹	{ Mon.	2-4
	{ Fri.	10-12
Engineering II— Heat Engines	Thur.	10-11
Theory of Machines	Wed.	9-10
Engineering III— Hydraulics	Mon.	9-10
Strength of Materials	Wed.	10-11
Engineering Laboratories and Drawing Office	{ Mon., Wed., Thur. ring)	11-1 3-5
Engineering Graphics	Thur.	2-3

¹ At the Mining Department, Grassmarket.

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Autumn and Spring :—		Third Year	Days	Hours
Geology I	.	.	Mon., Wed., Fri.	2-5
Mining II ¹	.	.	{ Tues.	11-12
	.	.	{ Thur.	10-11
Mining (Laboratory) ¹	.	.	Thur.	2-4
Mine Surveying Plotting (First part)	.	.	.	Tues. 9-11, 2-4
Metallurgy (Lectures) ^{2,3}	.	.	{ Mon., Thur.	9-10
	.	.	{ Tues.	1-2
	.	.	{ Thur.	11-12
Metallurgy (Laboratory) ^{2,3}	.	.	Mon., Wed.	10-12

Summer :—				
Geology I	.	.	Mon., Wed., Fri.	2-5
	.	.	{ Tues.	9-10.30
Mining III ¹	.	.	{ Thur.	2-4
	.	.	{ Mon., Fri.	9-10
Assaying I (Lectures) ¹	.	.	Mon., Fri.	10-11
Assaying I (Laboratory)	.	.	{ Tues.	10.30-1, 2-4
	.	.	{ Thur.	10.30-1

Autumn and Spring :—		Fourth Year		
Mining IV ¹	.	.	Mon., Wed.	9-10
Mining Plant ¹	.	.	Mon.	10-11
Mining (Laboratory)	.	.	Wed.	10-12
Mine Surveying ¹ —				
Lectures (Mine Surveying I)	.	.	{ Mon.	2-3
	.	.	{ Fri. (autumn)	1-4
Lectures (Mine Surveying II) ²	.	.	Mon.	11-12
Oil Mining ^{1,2}	.	.	Fri.	9-10
Mining Tutorial	.	.	Fri.	10-12
Assaying II (Lectures) ²	.	.	Tues.	11-12
Assaying II (Laboratory) ²	.	.	Thurs.	11-1
Rescue Training ¹	.	.	Fri. (spring)	1-4
Economic Geology	.	.	Tues., Thur.	2-4
Electrical Engineering ^{2,3} —				
Lectures	.	.	Wed.	1-2
Laboratory	.	.	Wed.	2-4
Organisation of Industry ²	.	.	Tues., Thur.	9-10

Summer :—				
Practical Mine Surveying (Burdiehouse Mine)	.	{ Mon., Tues., Wed.,		9-4
	.	{ Thur., Fri.		First 5 Weeks
Computation and Plotting (Burdiehouse Survey) ¹	.	{ Mon., Tues., Wed.,		9-4
	.	{ Thur., Fri.		Last 4 Weeks

¹ At the Mining Department, Grassmarket.

² At the Heriot-Watt College.

³ For the degree with Honours.

COURSES OF INSTRUCTION

TECHNICAL MATHEMATICS I and II (see p. 597)

PHYSICS I B (see p. 552)

CHEMISTRY (see p. 558)

ENGINEERING DRAWING (see p. 598)

ENGINEERING GRAPHICS (see p. 600)

ENGINEERING, GROUPS II and III (see p. 599)

GEOLOGY I and ECONOMIC GEOLOGY (see p. 562)

MINING

PROFESSOR MCADAM ; MR GALLAWAY, MR MILLIKEN, MR SHIELDS,
MR WATT, and MR WEIR, Lecturers

Mining I

Mon. at 2 and Fri. at 10. The course covers :—Mineral deposits; boring; sinking by the ordinary methods; opening out; excavation; support; modes of working bedded deposits; lighting; mine gases; elementary haulage.

Mining II

Tues. at 11 and Thurs. at 10 in autumn and spring. The course covers :—Winding; draining; haulage; sinking in difficult cases; ventilation; coal cutting by machinery; conveying; colliery explosions; rescue and recovery operations.

Mining III

Mon., Tues. and Fri. at 9 and Thurs. at 2 in summer. The course covers :—Prospecting, developing, and working of ore deposits; power and hand drilling; blasting; support of workings; ventilation of metalliferous mines; mine sampling; assay plans.

Mining IV

Mon. and Wed. at 9 in autumn and spring. The course covers :—Preparation of coal for the market; pit bank arrangements; banking and screening; dry and wet cleaning of coal; treatment of slurry and washery water; de-watering small washed coal; briquetting. Ore dressing; sorting, crushing, classification, concentration. Special methods of concentration.

Mining Plant

Mon. at 10 in autumn and spring. The lectures are largely devoted to numerical examples on pumps, pumping engines and motors, turbines, haulage and winding appliances, haulage and winding engines and motors, ventilating and.

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Mine Surveying I

Thurs. at 2 in autumn and spring, and Fri. from 1 to 4 in autumn. The course covers :—Measurement of distance ; chain surveying ; use of magnetic needle ; forms of miner's dial and other compass instruments ; dialling ; areas and volumes ; assessing royalty dues ; the theodolite and its use in traversing ; co-ordinates ; levelling—geometrical, trigonometrical, and physical ; triangulation ; tacheometry ; connection of surface and underground surveys ; adjustment of instruments ; determination of latitude and azimuth ; setting out problems ; borehole surveying ; regulations respecting mine plans and sections ; adjustment of error.

Mine Surveying II

Mon. at 11 in autumn and spring. Geophysical surveying ; propagation and adjustment of errors ; advanced surveying problems ; principles of valuation.

Oil Mining

Fri. at 9 in autumn and spring. Foreign oil fields ; prospecting ; field indications ; location of oil wells ; drilling, lining, and cleaning wells ; transport, storage, and measurement of oil ; refining.

Practical Experience in Mines

Students are required to obtain at least 60 per cent. of the total marks awarded for practical experience during the period of study. Marks will be awarded for :—(1) The period and character of experience certified by diaries signed by the Mine Manager or other responsible official, the minimum permissible period being six months ; (2) notebooks containing detailed descriptions of work performed, and of mines, machinery, methods, etc., and for drawings or photographs illustrating the latter ; and (3) essays on visits to mines and works arranged during the session. A student who has gained the necessary experience before joining the University will, in place of (1) and (2), be required to submit properly substantiated certificates in regard to experience and a thesis or paper on some branch of practical mining with which he has been concerned ; in addition, he should attend the visits and submit essays on them. All practical notes should be handed to the Professor during the final term of each year's course.

Mining Department

The Mining Department, Grassmarket, which has been built and furnished in conjunction with the Heriot-Watt College, contains lecture theatres and research rooms, and special laboratories devoted to analytical work, mine ventilation, mine lighting, and gas detection. There are also retiring rooms, a students' common room, a library, drawing office, instrument room, and museum. The laboratories are available during the terms, under the superintendence of the Professor, for practical instruction and research. The Mine Rescue Station, serving the mines of the Lothians, is part of the Department, and the ground floor of the building is occupied by a series of galleries laid out to resemble mine roadways, in which training in rescue operations is undertaken. The Department has the use of the Burdiehouse Mine, four miles from Edinburgh, for its course of Practical Mine Surveying.

Courses of Instruction (Mining)

METALLURGY

Dr HOWIE

Mon. at 9, Tues. at 1, Wed. at 10, and Thurs. at 9 in autumn and spring.

Physical metallurgy of the common industrial metals and alloys ; metallurgical aspects of working and fabricating processes ; extraction and refining of ferrous and non-ferrous metals. Practical work is based on the principles treated in the lectures.

ASSAYING

Dr SANDILANDS

Assaying I.—Mon. at 10, Tues. at 10.30, Thurs. at 9, and Fri. at 10 in summer. Wet Assaying, gravimetric, volumetric, electrolytic and colorimetric types with exercises on ores and metallurgical materials.

Assaying II.—Tues. at 11 and Thurs. at 11 in autumn and spring. Dry Assaying. Types of furnace, fuel and crucibles used ; survey of basic reactions in fused state ; calculations for charges ; scorification ; cupellation ; Assay of base bullion ; Assay of non-pyritic ore and pyritic ore for precious metal. Special methods for interfering agents in particular ores.

ORGANISATION OF INDUSTRY AND COMMERCE

PROFESSOR HUNT ; Dr BEHREND, Mr HIRD, and Mr STALKER, Lecturers

Tues. and Thurs. at 9 a.m. in the autumn and spring terms with tutorials at such hours as may be arranged. The aim of the course is to study the organisation and administration of modern industry and commerce with the emphasis on the problems of the individual firm. The course begins with an analysis of the factors determining the size and structure of industries and of their constituent firms. There follows a study of the limited company and its finance, including problems of capital structure, internal and external finance, and the role of the various financial institutions. The general problems of administration are studied, and the forms of internal organisation which have been devised to deal with them. An analysis is made of the several administrative functions and of the problems involved in buying, manufacturing and marketing in various market conditions. Attention is also given to the relationships between employers and employees, including a study of the institutional framework of industrial relations.

Required reading :—Robinson, *Structure of Competitive Industry* ; Branton, *Administration of Business Enterprise*.

Recommended books :—Paish, *Business Finance* ; Brech, *Management—Its Nature and Significance* ; Hunt, *Methods of Wage Payment* ; Flanders, *Trade Unions* ; Roethlisberger, *Management and Morale*.

Department of Chemical Technology

The Ordinance relating to Degrees in Chemical Technology came into force in 1955.

DEGREES OF BACHELOR OF TECHNOLOGICAL SCIENCE

Three Degrees in Science in Chemical Technology may be conferred, viz. : Bachelor of Technological Science (B.Sc. Technological), Master of Science : (M.Sc.) and Doctor of Science (D.Sc.). The Degree of Bachelor of Technological Science in Chemical Technology may be conferred as an Ordinary Degree or as a Degree with Honours.

Preliminary Qualifications and Admission to Classes

See Programme of Admission, pp. 3-9.

Ordinary Degree of Bachelor of Technological Science

V. Candidates for the ordinary degree of Bachelor of Technological Science in the Department of Chemical Technology must, during not less than four academical years, attend not less than fourteen courses of instruction (including not less than three courses in Chemistry, three courses in Chemical Technology and two courses in Engineering) in the subjects prescribed under Section VI of this Ordinance.

VI. The subjects of study shall be as follows :—Chemistry ; Physics ; Technical Mathematics ; Engineering ; Business Organisation and Costing ; Chemical Technology.

VII. The Senatus, with the approval of the University Court, shall determine from time to time the number of meetings of which any course shall consist.

VIII. (1) Nine of the fourteen courses must be taken in the University of Edinburgh.

(2) Five of the courses may be taken in other Universities or Institutions approved by the University Court, provided that these courses shall be not other than first courses in their respective subjects, except in such cases as the University Court may otherwise decide, after consultation with the Senatus, and provided that the fees for attendance at an approved Institution shall not be less than the fees exigible for the corresponding courses in the University.

(3) A student who, during one or more academical years, has given attendance on classes recognised as qualifying for graduation in Science in any one or more of the other Scottish Universities, and who shall have passed any of the examinations prescribed in such other University, may be exempted from examination in the first courses in corresponding subjects in Edinburgh. Further, the Senatus may extend, under such conditions as they may from time to time prescribe, similar privileges to students who may have been in attendance at other Universities specially recognised for the purpose by the University Court.

IX. The Senatus, with the approval of the University Court, may from time to time (a) modify the provisions as to the curriculum laid down in

¹ University Court Ordinance No. 103. For the degrees of D.Sc. and M.Sc. see Programme of Special Study and Research.

B.Sc. Regulations (Chem. Tech.)

Sections V and VI hereof ; (b) determine by regulations the selection, order and grouping of the subjects enumerated under Section VI of this Ordinance ; (c) determine that particular subjects shall for the purposes of examination be sub-divided or combined or transferred from one examination to another ; (d) fix the standards of the Degree examinations and the conditions of admission thereto.

Provided always that the University Court shall communicate to the General Council all such regulations, and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

X. (1) There shall be four examinations for the Ordinary Degree of Bachelor of Technological Science in the Department of Chemical Technology, namely the first examination, the second examination, the third examination and the final examination.

(2) The subjects of the first examination shall be Chemistry, Physics and Technical Mathematics.

(3) The subjects of the second examination shall be Chemistry, Physics and Technical Mathematics.

(4) The subjects of the third examination shall be Engineering and Chemistry.

(5) The subjects of the final examination shall be Chemical Technology and Business Organisation and Elementary Accounting.

XI. (1) Candidates may present themselves at any examination in any course after attending the corresponding course in the subject professed ; provided that no candidate, without express permission of the Senatus, may present himself at the examination in a higher course in any subject until he shall have passed the prescribed examinations in the lower course or courses for the same subject.

(2) A candidate shall not be deemed to have attended a course as part of the curriculum for the Degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the course.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed under this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Degree of Bachelor of Technological Science in the Department of Chemical Technology on payment of the fees required, and shall receive a Diploma wherein shall be set forth the subjects in respect of which the Degree has been granted.

Degree with Honours

XIII. The Degree of Bachelor of Technological Science in the Department of Chemical Technology may be taken with Honours under the following conditions :—

(1) The candidate must, in the course of not less than four academical years, have pursued the studies and passed the examinations specified in Sub-sections (2) and (3) of this Section.

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(2) The candidate, during not less than three years, must have attended twelve of the courses specified in Section V and VI hereof (including not more than one course in Chemical Technology) and passed the prescribed Degree examinations.

(3) Subsequently to passing the examinations specified in Sub-section (2) of this Section, the candidate must have, for at least one year, attended three courses of instruction in Chemical Technology, and passed the corresponding Degree examinations therein. The third course in Chemical Technology shall consist of an experimental enquiry in some branch of Chemical Technology, on which the candidate shall submit for the approval of the Examiners a written report or thesis, containing an account of the work done.

(4) The courses specified in Sub-section (3) of this Section must be taken in the University of Edinburgh.

XIV. (1) There shall be four examinations for the Degree of Bachelor of Technological Science with Honours in Chemical Technology, namely, the first examination, the second examination, the third examination and the final examination.

(2) The subjects of the first and second examinations shall be the same as for the Ordinary Degree of Bachelor of Technological Science in the Department of Chemical Technology.

(3) The subjects of the third examination shall be Engineering, Chemistry, Business Organisation and Elementary Accounting, and Physics (if a course in this subject is taken in the third year).

(4) The subject of the final examination shall be Chemical Technology.

XV. The Senatus, with the approval of the University Court, may from time to time (a) modify the provisions as to the curriculum laid down in Section XIII hereof; (b) determine by regulations the selection, order and grouping of the subjects enumerated under Sections VI and XIII of this Ordinance; (c) determine that particular subjects shall for the purposes of examination be subdivided or combined or transferred from one examination to another; (d) fix the standards of the Degree examinations and the conditions of admission thereto:

Provided always that the University Court shall communicate to the General Council all such regulations, and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

XVI. Only those candidates who show in the courses of the second year a standard of merit approved by the Senatus shall be permitted to study for the Degree with Honours.

XVII. The provisions of Section VIII (2) and (3) and of Section XI (1) and (2) (being here held to refer to the extended curriculum prescribed for the Degree with Honours) shall apply to the Degree with Honours.

B.Sc. Regulations (Chem. Tech.)

XVIII. (1) There shall be two grades of Honours, to be denominated respectively First and Second Class. The names of candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) A candidate may not present himself for re-examination for the Degree of Bachelor of Technological Science with Honours in Chemical Technology.

(3) A candidate who has failed to be placed in either class may be recommended for the Ordinary Degree.

XIX. Candidates who produce certificates that they have satisfied all the conditions prescribed under this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Degree of Bachelor of Technological Science in the Department of Chemical Technology with Honours on payment of the fees required, and the graduate shall receive a Diploma wherein shall be set forth all the subjects in respect of which the Degree has been granted.

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ORDER OF STUDY

(a) Ordinary Degree

First Year : Autumn, Spring and Summer :—

Chemistry I (lectures)	Mon., Wed., Fri., 9.30-10.30
Physics I (lectures)	. . . . .	Mon., Wed., Fri., 11-12
Technical Mathematics Ic (lectures and tutorials)	. . . . .	Daily, 12-1
Chemistry Laboratory	. . . . .	Tues., Thurs., 2-5
Physics Laboratory	. . . . .	2 hours weekly
Physics Tutorial	. . . . .	1 hour weekly

Second Year : Autumn, Spring and Summer :—

Special Chemistry Course A (lectures)	. . . . .	Mon., Wed., Fri., 12.30-1.30
Physics (lectures)	. . . . .	At times to be arranged
Engineering A (lectures and drawing)	. . . . .	Mon., Wed., 9-11
Technical Mathematics IIC (lectures and tutorials)	. . . . .	Daily, 11-12
Chemistry Laboratory	. . . . .	9 hours weekly
Physics Laboratory	. . . . .	Mon. or Fri., 2-5

Third Year : Autumn, Spring and Summer :—

Special Chemistry Course B (lectures)	. . . . .	Tues., Thurs., 12.30-1.30 ; Fri. 2-3
Chemical Technology I (lectures)	. . . . .	Mon., 9-10, Wed., Fri., 11-12
Engineering B (lectures)	. . . . .	Tues., 11-12, Wed., Thurs., 9-10
Chemical Technology, Laboratory and tutorials	. . . . .	At times to be arranged (autumn and spring only)
Physical Chemistry, Laboratory	. . . . .	15 hours weekly (summer only)
Engineering Laboratory	. . . . .	Thurs., 10-12

Fourth Year : Autumn, Spring and Summer :—

Chemical Technology IIA and IIB (lectures)	. . . . .	8 per week, to be arranged
Business Organisation and Elementary Accounting (lectures)	. . . . .	Wed., Fri., 12-1 (tutorial at time to be arranged)
Chemical Technology, Laboratory and tutorials	. . . . .	Daily, at times to be arranged

(b) Honours Degree

First and Second Years, as for Ordinary Degree

Third Year : Autumn, Spring and Summer :—

Special Chemistry Course B (lectures)	. . . . .	Tues., Thurs., 12.30-1.30 ; Fri. 2-3
Chemical Technology I (lectures)	. . . . .	Mon., 9-10, Wed., Fri., 11-12
Engineering B (lectures)	. . . . .	Tues., 11-12, Wed., Thurs., 9-10
Business Organisation and Elementary Accounting (lectures)	. . . . .	Wed., Fri., 12-1 (tutorial at time to be arranged)
Chemical Technology, Laboratory and tutorials	. . . . .	At times to be arranged (autumn and spring only)
Physical Chemistry, Laboratory	. . . . .	15 hours weekly (summer only)
Engineering, Laboratory	. . . . .	Thurs., 10-12

Fourth Year : Autumn, Spring and Summer :—

Chemical Technology IIA and IIB (lectures)	. . . . .	8 per week, to be arranged
Chemical Technology III (research project)	. . . . .	Daily, at times to be arranged
Chemical Technology, tutorials	. . . . .	To be arranged

COURSES OF INSTRUCTION

CHEMISTRY

PROFESSOR HIRST; PROFESSOR COTTRELL; and Lecturers

Course I (see p. 558) is taken in the first year. Special Chemistry Course A is taken in the second year. This includes (a) lectures on inorganic chemistry, physical chemistry and organic chemistry, and (b) 9 hours' laboratory and tutorial work per week during the three terms.

Special Chemistry Course B is taken in the third year. It includes (a) advanced lecture courses in selected branches of inorganic, physical and organic chemistry throughout the three terms, and (b) 15 hours' laboratory work per week during the summer term.

PHYSICS

PROFESSOR FEATHER ; and Lecturers

Course I is comprised of Physics Ib (see p. 552)¹ and is taken in the first year and Course II is comprised of that part of Physics II (see p. 553) which deals with Electricity and Heat and is taken in the second year.

TECHNICAL MATHEMATICS

Dr L. M. BROWN, Senior Lecturer ; Mr MACKENZIE, Dr FULTON,
and Mr LUCAS, Lecturers

Course Ic, taken in the first year. The work includes differential and integral calculus, and also the binomial theorem, determinants, the trigonometrical functions, complex numbers and hyperbolic functions, co-ordinate geometry of the straight line and plane, graphical methods, and an introduction to numerical and statistical techniques.

Course IIC, taken in the second year. The work includes : partial differentiation, multiple integration, Fourier series, differential equations, vector analysis.

ENGINEERING FOR CHEMICAL TECHNOLOGISTS

PROFESSOR ARNOLD ; and Lecturers

Course A, taken in the second year ; autumn, spring, and summer terms, Mon. and Wed. 9-11 ; Geometric drawing ; sections and interpenetration of solids ; machine drawing and its conventions ; strength of materials ; elementary mechanical design.

Course B, taken in the third year ; autumn, spring and summer terms, Tues., 11-12, Wed., 9-10, Thurs., 9-12 : Fluid pressure ; hydrostatics ; Bernoulli's theorem and applications ; flow measurement ; pipe friction ; Reynold's criterion ; dimensional analysis ; hydraulic machines. Simple alternating current theory ; power factor control ; transmission and distribution ; characteristics of electric motors ; speed control, protection ; electronic instrumentation. Properties of steam ; heat engine cycles ; refrigeration ; internal combustion engines ; steam power and process.

BUSINESS ORGANISATION AND ELEMENTARY ACCOUNTING

PROFESSOR HUNT ; and Lecturers

PROFESSOR ANDERSON ; and Mr T. Z. KWIECINSKI, Lecturer

Business Organisation and Elementary Accounting is taken in the third year for the Honours Degree and in the fourth year for the Ordinary Degree : autumn, spring and summer on Wed. and Fri. at 12-1.

¹ In certain cases, on the advice of the Director of Studies, Physics I A may be substituted for Physics I B.

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I. *Business Organisation* (Professor HUNT and Lecturers). (a) Analysis of the structure of the chemical and other industries ; economies of scale ; combination ; location. (b) The limited company ; its organisation and finance. (c) Industrial management ; functional delegation and co-ordination ; production planning and control ; work study. (d) Industrial relations ; trade unions, collective bargaining, wages and industrial disputes. (e) Marketing ; price policy, channels of distribution.

Recommended books :—Beacham, *Economics of Industrial Organisation*; Robinson, *Structure of Competitive Industry*; Williams, *The Chemical Industry*; Branton, *Administration of Business Enterprise*; Maier, *Psychology in Industry*; Flanders, *Trade Unions*; and the reading specified in the lectures.

II. *Elementary Accounting* (Professor ANDERSON and Mr KWIECINSKI). The theory of cost accounting, standard costs and budgetary control, with special reference to cost accounting for the chemical industry. The interpretation of balance sheets and the elements of company taxation.

Recommended books :—Wheldon, *Costing Simplified* ; Broad and Carmichael, *Guide to Management Accounting*.

CHEMICAL TECHNOLOGY

PROFESSOR DENBIGH ; Dr WILSON, Senior Lecturer ; Dr MACLEOD, Lecturer

The lecture courses in Chemical Technology are concerned with the general physico-chemical principles which are applicable throughout the chemical industry. These principles are illustrated by means of problems and examples taken from particular manufacturing processes.

Course I, taken in the third year, is an introduction to the study of mass and heat transfer, fluid flow, the unit operations, material and energy balances, fuels, the applications of chemical kinetics and thermodynamics, the principles of continuous reaction.

Course IIA, taken in the fourth year, is a more extensive study of mass and heat transfer, and the unit operations of evaporation, distillation, absorption, extraction, filtration, drying, crystallisation, crushing and grinding. Some or all of the following topics will also be included ; instrumentation and automatic control, corrosion and materials of construction, process design, and economics, reactor design, process power and heat.

Course IIB, taken in the fourth year, is an advanced course on thermodynamics and its applications. Additional studies in fluid mechanics will also be included, together with radiation and surface chemistry.

Course III, taken by Honours students in their fourth year, is the performance of a short experimental research together with the preparation of a thesis. Honours students are also expected to carry out a design problem.

Tutorial classes are given in conjunction with the lectures. Short courses of lectures may also be arranged on some of the specialised branches of chemical technology.

Laboratory work is concerned with the experimental study of the physico-chemical factors involved in chemical processes. The equipment includes medium scale plant suitable for the study of the unit operations.

Through the courtesy of the firms concerned, periodic visits are made to chemical plants in the vicinity, and arrangements may be made whereby students can spend a part of a vacation at a chemical factory.

Timetable of Class Examinations

TIMETABLE OF CLASS EXAMINATIONS

Pure Science

	Autumn		Spring		Summer	
	Dec.		Mar.			
ASTRONOMY	18	9-12	18	9-12		
BACTERIOLOGY I	18	9-12				
BOTANY :—						
I A	15	2-5	15	2-5		
I B	18	2-5	18	2-5		
II	16	9-12	16	9-12		
	18	9-12 ¹	18	9-12 ¹		
CHEMISTRY :—						
I	14	9-11	14	9-11		
II	16	2-4.30	16	2-4.30		
III	16	2-4.30	16	2-4.30		
GEOLOGY I	14	1.30-3	14	1.30-3		
MATHEMATICAL PHYSICS :—						
I	15	3.45-5.45	15	3.45-5.45		
II	16	9-12	16	9-12		
MATHEMATICS :—						
I	16	9.30-12	16	9.30-12		
II	15	9-12	15	9-12		
METEROLOGY	17	1.15-3.15	17	1.15-3.15	June 8	9-11
PHYSICS :—						
I (A, B, and C)	17	1.15-3.15	17	1.15-3.15		
II	14	9-12	14	9-11		
PSYCHOLOGY I and II	17	3.45-5.45	17	3.45-5.45		
SOCIAL ANTHROPOLOGY :—						
I and II	11	4-6	11	4-6		

¹ Practical

Faculty of Science

TIMETABLE OF CLASS EXAMINATIONS

Applied Science

	Autumn		Spring		Summer	
	Dec.					
AGRICULTURE :—						
Accounting	15	11-1			June 10	9-12
Advanced Agricultural Entomology			Mar.			
Agricultural Economics	14	2-4	9	9-10		
Agricultural Zoology	16	11-1	17	10-12		
	18	11-1 ¹	17	2-4 ¹		
Forestry	15	4-5	7	4-5		
CHEMICAL TECHNOLOGY :—						
Engineering A			16	9.30-12.30		
			18	9.30-12.30		
Engineering B			11	9.30-12.30		
			16	9.30-12.30		
			18	9.30-12.30		
Special Chemistry—						
A	16	2-4.30	16	2-4.30		
B	16	2-4.30	16	2-4.30		
ENGINEERING AND MINING :—						
Chemistry	11	2.30-4.30	11	2.30-4.30		
Geology for Applied Science . .	11	12-1	2	12-1		
Geology (Mining) See Geology I .						
Physics	17	1.15-3.15	17	1.15-3.15		
Technical Mathematics :—						
I	15	9-12	15	9-12	7	9-12
II	14	2-5	14	2-5	6	2-5
FORESTRY :—						
Chemistry	14	9-11	14	9-11		
Forest Zoology	11	2-4	14	2-4		
	14	2-4 ¹	15	10-12 ¹		
Meteorology			16	(1 hour)		

Practical.

Timetable of Degree Examinations

TIMETABLE OF B.Sc. DEGREE EXAMINATIONS

Practical examinations, not entered in the timetable, will be at times to be arranged.

Pure Science

	June			Sept.		
ANATOMY I, II and III ¹						
ASTRONOMY	14 14 ²	Tu. Tu.	9-12 2-5	19 21 ²	M. W.	2-5 2-5
BACTERIOLOGY I	17 20	F. M.	2-5 2-5	26 26	M. M.	9-12 2-5
BACTERIOLOGY II	17 20	F. M.	2-5 2-5			
BIOCHEMISTRY I	14	Tu.	2-5	22	Th.	9-12
BIOCHEMISTRY II	13 14 15 16	M. Tu. W. Th.	2-5 2-5 2-5 2-5			
BOTANY I	20	M.	2-5	26	M.	9-12
BOTANY II	15 15	W. W.	9-12 2-5	23 23	F. F.	9-12 2-5
BOTANY III	15 15	W. W.	9-12 2-5	23 23	F. F.	9-12 2-5
BOTANY IV	15 15	W. W.	9-12 2-5			
CHEMISTRY I	10 13 ³	F. M.	10-12 2- 4.30	20 23 ³	Tu. F.	3.45- 5.45 10- 12.30
CHEMISTRY II	16 17	Th. F.	2- 4.30 2- 4.30	28 28	W. W.	9.30- 12 2- 4.30
CHEMISTRY III	16 17	Th. F.	2-5 2-5	22 23	Th. F.	2-5 2-5
CHEMISTRY IV	13 14 15 16	M. Tu. W. Th.	2-5 2-5 2-5 2-5			

¹ For Anatomy I and II see Faculty of Medicine Programme, Anatomy III at times to be arranged.

² At the Royal Observatory.

³ Practical.

Faculty of Science

Pure Science—continued

For examination dates of entry, see p. 533

Subject	June 1960			Sept. 1960		
GENETICS I and II	15	W.	9-12			
	16	Th.	9-12			
GEOLOGY I	10	F.	2-5	26	M.	2-5
GEOLOGY II	10	F.	2-5	20	Tu.	9-12
	13	M.	9-12	21	W.	9-12
GEOLOGY III	6	M.	9-12			
	7	Tu.	9-12			
	8	W.	9-12			
	9	Th.	9-12			
MATHEMATICAL PHYSICS I	13	M.	3.45-5.45	20	Tu.	3.45-5.45
	15	W.	3.45-5.45	22	Th.	1.15-3.15
MATHEMATICAL PHYSICS II	15	W.	9-12	22	Th.	9-12
	16	Th.	9-12	23	F.	2-5
MATHEMATICAL PHYSICS III and IV:						
Dynamics	2	Th.	9-12			
Hydrodynamics and Theory of Sound	6	M.	9-12			
Quantum Mechanics	6	M.	2-5			
Electromagnetic Theory	8	W.	9-12			
General Paper	9	Th.	2-5			
Thermodynamics and Statistical Mechanics	10	F.	9-12			
MATHEMATICS I	15	W.	10-12	22	Th.	10-12
	16	Th.	10-12	23	F.	2-4
MATHEMATICS II	8	W.	9-12	19	M.	9-12
	9	Th.	9-12	20	Tu.	9-12
MATHEMATICS III and IV:						
General Analysis	3	F.	9-12			
Foundations of Analysis and Calculus	7	Tu.	9-12			
Advanced Statistics	8	W.	2-5			
Algebra and Geometry	9	Th.	9-12			
Mathematical Laboratory	10	F.	2-5			
METEOROLOGY	8	W.	10-12	19	M.	10-12
	9	Th.	10-12	20	Tu.	10-12
PATHOLOGY	20	M.	9-12			
	21	Tu.	9-12			
PHARMACOLOGY I	21	Tu.	9-12	27	Tu.	9-12
	21 ¹	Tu.	2-4	27 ¹	Tu.	2-4
PHARMACOLOGY II	21	Tu.	9-12			
	21 ¹	Tu.	2-4			

¹ Practical.

Timetable of Degree Examinations

Pure Science—continued

For examination dates of entry, see p. 533

Subject	June 1960			Sept 1960		
PHYSICS I	8	W.	10-12	19	M.	10-12
	9	Th.	10-12	20	Tu.	10-12
PHYSICS II	10	F.	9-12	21	W.	9-12
	13	M.	9-12	23	F.	9-12
PHYSICS III and IV:						
Paper 1	2	Th.	9-12			
Paper 2	3	F.	9-12			
Paper 3	6	M.	9-12			
Paper 4	7	Tu.	9-12			
Paper 5	8	W.	9-12			
Paper 6	9	Th.	9-12			
Theoretical Physics	10	F.	9-12			
Essay	10	F.	2-5			
PHYSIOLOGY I	13	M.	9-12	20	Tu.	2-5
	16 ¹	Th.	9-12			
PHYSIOLOGY WITH PHARMACOLOGY	13	M.	9-12	19	M.	9-12
	14	Tu.	2-5	20	Tu.	2-5
	16 ¹	Th.	9-12			
	17 ¹	F.	2-5			
PHYSIOLOGY III	13	M.	9-12			
	14	Tu.	2-5			
	15	W.	2-5			
	20 ¹	M.	9-12			
	21 ¹	Tu.	9-12			
	22 ¹	W.	9-12			
	Mar.					
PREHISTORIC ARCHÆOLOGY I and II.	10	Th.	9-11	26	M.	3.45-5.45
	10	Th.	2-4	27	Tu.	3.45-5.45
	June					
PSYCHOLOGY I and II	8	W.	1.15-3.15	19	M.	10-12
	9	Th.	1.15-3.15	20	Tu.	10-12
SOCIAL ANTHROPOLOGY I and II	21	Tu.	10-12	28	W.	10-12
	21	Tu.	1.15-3.15	28	W.	2-4
ZOOLOGY I	14	Tu.	9-12	21	W.	2-5
	17 ¹	F.	9-12	27 ¹	Tu.	9-12
ZOOLOGY II and III	14	Tu.	9-12	19	M.	2-5
	17	F.	9-12	21	W.	2-5
	20 ¹	M.	9-12	27 ¹	Tu.	9-12
	21 ¹	Tu.	9-12	27 ¹	Tu.	2-5
ZOOLOGY IV	15	W.	2-5			
	16	Th.	2-5			
	17	F.	2-5			
	22 ¹	W.	9-12			
	22 ¹	W.	2-5			
	23 ¹	Th.	9-12			
	23 ²	Th.	2			

Practical.

¹ Oral.

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Agriculture

For examination dates of entry, see p. 533

For Chemistry, Botany, and Zoology, see under Pure Science

Date		Subject	Hours
1960			
Mar. 11	F.	VETERINARY HYGIENE	2-4
Mar. 14	M.	FORESTRY	2-5
Mar. 15	Tu.	GENETICS	9-12
Mar. 16	W.	PLANT PHYSIOLOGY	9-12
		AGRICULTURAL BACTERIOLOGY	10-12
		AGRICULTURAL BACTERIOLOGY (practical)	2-5
Mar. 17	Th.	AGRICULTURAL ZOOLOGY (written)	10-12
		AGRICULTURAL ZOOLOGY (practical)	2-4
June 10	F.	SURVEYING 1A (drawing)	2-5
June 13	M.	SURVEYING 1A (written)	10-12
		CROP HUSBANDRY	2-5
		AGRICULTURE III (HONS.) (1st paper)	2-5
		HORTICULTURE I	2-5
June 14	Tu.	ANIMAL HUSBANDRY	9-12
		AGRICULTURE III (HONS.) (2nd paper)	9-12
		AGRICULTURAL CHEMISTRY (written)	2-5
		HORTICULTURE II	9-12
June 15	W.	AGRICULTURAL ECONOMICS	9-12
June 16	Th.	FARM MECHANIZATION	9-12
		PRACTICAL AGRICULTURE (written)	9-12
		AGRICULTURAL CHEMISTRY (practical)	10-4
June 17	F.	AGRICULTURAL BOTANY (written)	9-12
		AGRICULTURAL BOTANY (practical)	2-5
		ADVANCED AGRICULTURAL ENTOMOLOGY	2-5
		VETERINARY PHYSIOLOGY	2-5
June 24	F.	PRACTICAL AGRICULTURE (oral at Bush Estate)	9-5
Sept. 19	M.	CROP HUSBANDRY	9-12
		ANIMAL HUSBANDRY	2-5
Sept. 20	Tu.	GENETICS	9-12
		AGRICULTURAL ECONOMICS	9-12
		AGRICULTURAL BOTANY	2-5
		PRACTICAL AGRICULTURE (written)	2-5
Sept. 21	W.	AGRICULTURAL CHEMISTRY (written)	9-12
		FARM MECHANIZATION	9-12
Sept. 22	Th.	AGRICULTURAL CHEMISTRY (practical)	10-4
		AGRICULTURAL BACTERIOLOGY (written)	10-12
		AGRICULTURAL BACTERIOLOGY (practical)	2-5
Sept. 23	F.	FORESTRY	9-12
		SURVEYING 1A (written)	10-12
		SURVEYING 1A (drawing)	2-5
Sept. 26	M.	VETERINARY HYGIENE	9-11
Sept. 27	Tu.	PRACTICAL AGRICULTURE (oral at Bush Estate)	9-5
Sept. 28	W.	AGRICULTURAL ZOOLOGY (written)	9-11
		AGRICULTURAL ZOOLOGY (practical)	2-4

Timetable of Degree Examinations

Engineering

For examination dates of entry, see p. 533

Subject	April-June 1960			Sept. 1960		
	Apr.					
APPLIED MATHEMATICS A	22	F.	9-12	23	F.	9-12
APPLIED MATHEMATICS B	22	F.	2-5	23	F.	2-5
	May					
CIVIL ENGINEERING DESIGN	31	Tu.	9-1			
MECHANICAL ENGINEERING DESIGN	31	Tu.	9-1			
ELECTRONICS AND COMMUNICA-	June					
TIONS	1	W.	9-12			
SURVEYING II	1	W.	9-12			
CIVIL ENGINEERING PRACTICE	2	Th.	9-12			
HEAT ENGINES III	2	Th.	9-12			
THEORY OF STRUCTURES	3	F.	9-12			
ELECTRICAL POWER	3	F.	9-12			
HYDRAULICS	6	M.	9-12			
GROUP I	6	M.	9-12	20	Tu.	9-12
STRENGTH OF MATERIALS	7	Tu.	9-12			
ADVANCED ELECTRICITY AND						
ELECTROMAGNETISM	7	Tu.	9-12			
THEORY OF MACHINES	8	W.	9-12			
PHYSICS	8	W.	10-12	19	M.	10-12
	9	Th.	10-12	20	Tu.	10-12
	9	Th.	9-1			
CIVIL ENGINEERING DESIGN (HONS.)						
MECHANICAL ENGINEERING DESIGN	9	Th.	9-1			
(HONS.)						
ELECTRONICS AND COMMUNICA-	9	Th.	9-12			
TIONS (HONS.)						
GROUP II	9	Th.	2-5	21	W.	2-5
CIVIL ENGINEERING PRACTICE						
(HONS.)	10	F.	9-12			
HEAT ENGINES III (HONS.)	10	F.	9-12			
THEORY OF STRUCTURES (HONS.)	13	M.	9-12			
ELECTRICAL POWER (HONS.)	13	M.	9-12			
HYDRAULICS (HONS.)	14	Tu.	9-12			
GROUP III	14	Tu.	9-12	28	W.	9-12
CHEMISTRY	14	Tu.	3-5	30	F.	3-5
STRENGTH OF MATERIALS (HONS.)	15	W.	9-12			
ADV. EL.EC. AND ELECTROMAGNETISM						
(HONS.)	15	W.	9-12			
TECHNICAL MATHEMATICS II	15	W.	9-12	27	Tu.	9-12
TECHNICAL MATHEMATICS II	15	W.	2-5	27	Tu.	2-5
TECHNICAL MATHEMATICS I	15	W.	9-12	19	M.	9-12
TECHNICAL MATHEMATICS I	16	Th.	9-12	19	M.	2-5
THEORY OF MACHINES (HONS.)	16	Th.	9-12			
GROUP IV	16	Th.	9-12	22	Th.	9-12
ADDITIONAL SUBJECTS	17	F.	9-12			
ENGINEERING GRAPHICS	17	F.	9-12	23	F.	9-12
				Oct.		
CHEMISTRY (Practical)	17	F.	2-4.30	3	M.	2-4.30

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Diploma in Electronics and Radio				
June 13	M.	Paper 1	.	9.30-12.30
June 14	Tu.	Paper 2	.	9.30-12.30
June 15	W.	Paper 3	.	9.30-12.30
June 16	Th.	Paper 4	.	9.30-12.30
June 17	F.	Essay	.	9.30-12.30

Diploma in Applied Dynamics				
June 16	Th.	Paper 1	.	9.30-12.30
June 17	F.	Paper 2	.	9.30-12.30

Timetable of Degree Examinations

Forestry

For examination dates of entry, see p. 533
For Botany and Zoology see under Pure Science

Date		Subject	Hours
1960			
Mar. 7	M.	HONOURS FORESTRY (SILVICULTURE)	9-12
		FORESTRY II (MANAGEMENT AND MANAGEMENT PLANS)	9-12
		FOREST PATHOLOGY (Practical)	2-5
Mar. 8	Tu.	FORESTRY II (SILVICULTURE III)	9-12
		FOREST ENGINEERING	9-12
Mar. 9	W.	FORESTRY II (TROPICAL AND SUB-TROPICAL FORESTRY)	2-5
		HONOURS FORESTRY (MANAGEMENT)	9-12
		FOREST PATHOLOGY	9-12
Mar. 10	Th.	FORESTRY II (POLICY)	9-12
		CHEMISTRY OF FOREST PRODUCTS (Practical)	2-5
Mar. 11	F.	UTILISATION	9-12
Mar. 12	S.	GEOLOGY	9-11
		FORESTRY II (FOREST ECONOMICS)	9-12
		HONOURS FORESTRY (FOREST INFLUENCES, PROTECTION, UTILISATION AND ECONOMICS)	9-12
Mar. 14	M.	HONOURS FORESTRY (SOIL SCIENCE)	9-12
		FOREST BOTANY	9-12
		FOREST ZOOLOGY	2-4
Mar. 15	Tu.	FOREST ZOOLOGY (Practical)	10-12
		FOREST BOTANY (Practical)	9-12
June 7	Tu.	FORESTRY I (SILVICULTURE)	2-5
June 8	W.	FORESTRY I (FOREST INFLUENCES AND METEOROLOGY AND PROTECTION)	2-5
June 9	Th.	FOREST SOIL SCIENCE (Practical)	9-12
June 10	F.	CHEMISTRY (Written)	10-12
	F.	SURVEYING (Drawing)	2-5
June 11	S.	FORESTRY I (MENSURATION AND VALUATION)	9-12
June 13	M.	SURVEYING (Written)	10-12
June 14	Tu.	PHYSICS (1st paper)	10-12
	W.	FOREST SOIL SCIENCE (Written)	2-4
June 15	W.	PHYSICS (2nd paper)	10-12
June 16	Th.	CHEMISTRY (Practical)	10-12.30
Sept. 20	Tu.	CHEMISTRY (Written)	3.45-5.45
Sept. 22	Th.	PHYSICS (1st paper)	9-11
		FOREST ENGINEERING	9-12
		FOREST SOIL SCIENCE (Written)	2-5
Sept. 23	F.	PHYSICS (2nd paper)	9-11
		SURVEYING (Written)	10-12
		SURVEYING (Drawing)	2-5
		CHEMISTRY (Practical)	10-12.30
Sept. 24	S.	FOREST BOTANY	9-12
Sept. 26	M.	FOREST SOIL SCIENCE (Practical)	9-12
		FOREST BOTANY (Practical)	2-5
Sept. 27	Tu.	GEOLOGY	9-11
		FOREST PATHOLOGY	9-12
		FOREST PATHOLOGY (Practical)	2-5
Sept. 28	W.	FOREST ZOOLOGY (Written)	9-11
		FOREST ZOOLOGY (Practical)	2-4

Faculty of Science

Mining

For examination dates of entry, see p. 533

For other subjects, see under Pure Science and Engineering

Date	Subject	Hours
1960		
Mar. 14 M.	ECONOMIC GEOLOGY	9-12
Mar. 15 Tu.	ORGANISATION OF INDUSTRY AND COMMERCE	3-5
Mar. 16 W.	MINING II AND IV	9.30-12.30
Mar. 17 Th.	OIL MINING	10-12
May 3 Tu.	ASSAYING I	10-2.30
May 4 W.	ASSAYING II	10-2.30
May 10 Tu.	METALLURGY	2-5
June 6 M.	MINE SURVEYING II	10-12
June 9 Th.	MINING I	2-5
June 13 M.	MINE SURVEYING I	9.30-12.30
June 14 Tu.	MINING III	9.30-12.30

Chemical Technology

For examination dates of entry, see p. 533

For Chemistry I and Physics I see under Pure Science.

Subject	June 1960			Sept. 1960		
TECHNICAL MATHEMATICS Ic	14	Tu.	9-12	27	Tu.	9-12
	15	W.	9-12	28	W.	9-12
TECHNICAL MATHEMATICS IIc	17	F.	9-12	30	F.	9-12
	18	S.	9-12	Oct. 1	S.	9-12
				Sept.		
SPECIAL CHEMISTRY A (CHEMISTRY II)	16	Th.	2-4.30	28	W.	9.30-12
	17	F.	2-4.30	28	W.	2-4.30
PHYSICS II (ELECTRICITY AND HEAT)	10	F.	9-12	21	W.	9-12
	13	M.	9-12	23	F.	9-12
SPECIAL CHEMISTRY B (CHEMISTRY III)	16	Th.	2-5	22	Th.	2-5
	17	F.	2-5	23	F.	2-5
ENGINEERING A	13	M.	9-11	21	W.	9-11
	13	M.	11.15-1.15			11.15-1.15
			1.15			1.15
ENGINEERING B	10	F.	9-12	22	Th.	9-12
BUSINESS ORGANISATION AND ELEMENTARY ACCOUNTING	15	W.	9-11	30	F.	9-11
	15	W.	3-5	30	F.	3-5
CHEMICAL TECHNOLOGY	13	M.	10-1			
	14	Tu.	10-1			
	15	W.	10-1			
	16	Th.	10-1			
	17	F.	10-1			

Fellowships, Scholarships, and Bursaries

FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS, PRIZES, AND BURSARIES

General Conditions of Candidature, Tenure, and Payment

Both men and women students are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

No prize may be awarded more than once to the same person except by the special recommendation of the Faculty.

Except where special conditions of entry are given under the individual awards below, entry for fellowships, scholarships, bursaries and prizes must be made at the Matriculation Office by 15th September for those open in autumn, by 1st March for those open in spring, and by 15th May for those open in summer.¹

Except where otherwise provided by deed of foundation or by resolution of the Senatus, fellowships and scholarships are tenable only by persons who devote their time to post-graduate advanced study or research.

Holders of bursaries in the Faculty of Science must (unless further special conditions are attached to their bursaries) pursue a curriculum for the degree of B.Sc. approved by the respective Directors of Studies and must present themselves in due course at the degree examinations.

The holders of all fellowships and scholarships must submit to the Dean, or to the respective Director of Studies acting for the Dean, in October and May, evidence that they have prosecuted post-graduate advanced study or research or otherwise fulfilled the conditions of tenure of their awards and have made satisfactory progress.

Holders of bursaries must submit to their respective Directors of Studies in October and in the summer term, on completion of their class attendance, evidence that the conditions of tenure of their awards have been fulfilled and that they have made satisfactory progress. All holders of fellowships, scholarships, bursaries and prizes must obtain certificates signed by the Dean, or by a Director of Studies on his behalf, attesting the fulfilment of the conditions of tenure.

Payments of fellowships, scholarships, bursaries and prizes (except those in the hands of agents outside the University) are made by the University Accountant, as follows:—First instalments from 15th October²; second instalments from 10th May for fellowships and scholarships, and for bursaries after completion of the class attendance as certified by the Directors of Studies.³ Those who do not apply within three months to the University Accountant for the instalments due to them will be regarded as having resigned, but a formal intimation of resignation should be tendered to the Dean and to the University Accountant.

¹ The Senatus may relax this regulation when very special cause is shown.

² On special cause shown and with the express approval of the Dean, payment of fellowships and scholarships may be made in one instalment.

³ Payments may require to be made under deduction of Income Tax if not exempted under Section 458 of the Income Tax Act 1952:—"Income arising from a scholarship held by a person receiving full-time instruction at a university, college, school, or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

Faculty of Science

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, AND PRIZES

I

Entrance Bursaries

The following entrance bursaries (see under "Entrance Bursaries") are tenable in the Faculty of Science :—

(a) Entrance Bursaries awarded by the University.

Archibald or M'Guffie (a)	Johnstone of Harthope
Ardvorlich	Johnstone (Robert)
Beattie (John)	Lennie
Blair	McDiarmid
Browne	Macdonald (William)
Bruce	Mackenzie (Stornoway)
Bruce of Grangehill	Mackinnon
Campbell (Robert Mackenzie)	Maclaurin
Chrystie	Mann
Cousin	Marshall
Dalglish and McMorran	Maule
Davidson	Mitchell and Short
Donaldson of Auchairne	Patrick
Dundas	Penman
Fairbairn (James)	Pringle and Wardrop
Ford	Ramsay (Sir Andrew)
Fotheringham and Forrest	Renton
Fraser (Thomas)	Sibbald
Grant	Thomson (b)
Grierson (a)	Trotter and Penman
Jamieson	Weir, Jenkins, Hepburn and
Jardine (Bidder)	Lightbody
Jardine of Thorlieshope	Whitelaw
Johnstone (Archibald)	Wight, McCall and Christie

(b) Entrance Bursaries awarded by Outside Bodies.

Abercromby	Lanarkshire (Upper Ward)
Association (Edinburgh) for the	Lewis
University Education of Women	Maclean (Alexander)
Baxter of Balgavies	Menzies
Baxter of Balgavies Scholarships	Milligan-Paulin
Borderers (Edinburgh) Association	Miners' Welfare National
(a), (b), (c)	Scholarships and
Caithness (Edinburgh) Association	Exhibitions
Clan Mackay Society (a), (b), (c)	Morayshire (Edinburgh) Club
Cowan House (a)	Nairn
Dawson	Newland (John)
Highlands and Islands Education	Rackstraw (Marjorie)
Trust (a), (b), (c), (d)	Robertson (Archibald)
Inverness-shire (London) Association	

Fellowships, Scholarships, and Bursaries

II

Fellowships and Scholarships included in the Edinburgh University (Fellowships, Scholarships, and Bursaries) Scheme, 1953

(a) POST-GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Regulations

- (i) Unless otherwise stated, awards of fellowships and scholarships will normally be made in the first place for a period of two years, with a possible extension of one year at the discretion of the Senatus on good cause shown.
- (ii) The Senatus, at its discretion, may permit more than one post-graduate award to be held by the same person but it is not permissible for any person to hold more than one Vans Dunlop Science Scholarship at one time.
- (iii) Unless the Senatus shall decide otherwise, no fellowship or scholarship shall be tenable with any paid employment.
- (iv) The values of the awards are stated approximately, but the values of fellowships and post-graduate scholarships may be supplemented on good cause shown.

The following awards will be offered from time to time in the Faculty of Science. The fellowships or scholarships available for award and the method of award, where not stated, will be announced during each session :—

Baxter (Sir David) Scholarships (a) Natural Science ; and (b) Physical Science.—Two scholarships of £350 p.a. for two years extensible to three years ; each available every seventh year if not extended to a third year ; every tenth year if extended ; awarded to Bachelors of Science of the University who have passed the last of the examinations necessary for graduation within three years of the date of the vacancy. The scholarship in Natural Science is awarded on the basis of the B.Sc. examinations to the Bachelor of Science who showed the greatest proficiency in one of the following branches of Natural Science :—Anatomy, Botany, Genetics, Geology, Physiology, Zoology. The scholarship in Physical Science is awarded on the basis of the B.Sc. examinations to the Bachelor of Science who showed the greatest proficiency in one of the following branches of Physical Science :—Astronomy, Chemistry, Mathematical Physics, Mathematics, Physics. The holders of these scholarships must pursue their studies in Science during their tenure.

1957, W. D. Donachie, B.Sc. (a) ; H. K. Moffatt, B.Sc. (b).

Falconer Memorial Fellowship.—One scholarship of £350 p.a. for two years extensible to three years ; available every fourth year if not extended to a third year ; every sixth year if extended ; awarded on the basis of an examination in Natural History as applied to Palaeontology and Geology to a graduate in Science or Medicine of the University of not more than three years' standing.

1958, J. F. Watt, B.Sc.

Ramsay Wright Scholarship.—One scholarship of £350 p.a. for two years extensible to three years ; available every seventh year if not extended to a third year ; every tenth year if extended ; awarded to a graduate of any University who is not more than 25 years of age and who is prepared to carry out research on an approved zoological subject in the Zoology Department of the University.

1957, W. Sinclair, B.Sc.

Steven Scholarship in Agriculture.—£100 for one year only : awarded annually in June to a student attending the class of Agriculture in the University, the subjects of examination being Agriculture and General and Agricultural Chemistry. The holder must visit the annual exhibitions of the Bath and West of England Agricultural Society, the Royal Highland and Agricultural Society of Scotland, the Royal Agricultural Society of England, and the Royal Agricultural Society of Ireland, or such of them as the Professor of Agriculture

Faculty of Science

shall appoint, and must report on his visit or visits to the satisfaction of the Professor.

1959, A. R. J. D. Miller, B.Sc.

University Biological Fellowship.—£650 to £850 per annum, according to seniority, qualifications and family circumstances, for a period of one or two years, and in exceptional cases for three years. The Fellowship will be awarded to a research worker of proved capacity and exceptional promise in the field of Pure Biology, and will be tenable in the Departments of Animal Genetics, Botany or Zoology in the University of Edinburgh. Holders of the Fellowship must not undertake any outside employment, though they may do a limited amount of teaching at the discretion of the Head of the Department in which they work. They may be admitted to the Federated Superannuation Scheme for Universities on terms applying to University Staff. Applications for the Fellowship should be made by 1st March to the Dean of the Faculty of Science.

1958, Dr A. Romanovsky and Dr Yoshio Nakao.

Vans Dunlop Scholarships.—One or two scholarships yearly of £350 per annum for two years extensible to three years; awarded, on the nomination of the Faculty, in any subject within the Faculty of Science, on the basis of the Honours examinations for the degree of B.Sc. or B.Sc. Technological, or such other examinations as the Senatus may approve. Candidates must be matriculated students of not less than two years' standing. The holder must annually submit satisfactory evidence, through the head of his department, to the Senatus that he is prosecuting research studies.

A Vans Dunlop Scholarship will not be awarded in any branch of Natural Science in any year in which the Sir David Baxter Scholarship in Natural Science is available, nor in any branch of Physical Science in any year in which the Sir David Baxter Scholarship in Physical Science is available. A Vans Dunlop Scholarship will not be awarded in Geology in any year in which the Falconer Memorial Fellowship is available, nor in Zoology in any year in which the Ramsay Wright Scholarship is available.

1959, R. C. Dougal, B.Sc. (Physics).

All the above scholarships are reserved for *exceptionally* well qualified students. If applicants are not considered to be of proper calibre, any Scholarship or Fellowship may be kept open for award in the ensuing academic year.

No supplement to the stipends awarded may be requested from other University sources.

(b) UNDERGRADUATE SCHOLARSHIPS

Newton Undergraduate Scholarships.—See Faculty of Arts Programme.

III

Other Fellowships, Scholarships, Bursaries, and Prizes

N.B.—The values of fellowships, scholarships, bursaries, and prizes are stated approximately.

Agricultural Research Council, Training Grants, Research Studentships and Fellowships.—The Agricultural Research Council awards post-graduate Training Grants or Research Studentships to Honours graduates in Science and to graduates in Agriculture or Horticulture who have shown a special interest in one of the basic sciences. A limited number of these may take the form of Veterinary Training Grants to enable science graduates to read for a veterinary qualification; these will be of four years' duration. The value of these training grants and research studentships varies from £300 to £450 per annum together with educational fees. The Council also offers Junior Agricultural Research Fellowships tenable for three years and valued at £630 per annum; these are open to Honours graduates with not less than three years of post-graduate experience. Further details and application forms are obtainable from the Secretary, Agricultural Research Council, Cunard Building, 15 Regent Street, London, S.W. 1. Forms should be lodged with the Secretary by 31st March.

Fellowships, Scholarships, and Bursaries

Brewers' Society Scholarship.—This Scholarship, of £200 p.a., plus payment of University fees, is open for competition to students at the end of the first, second or third years of a course of study leading to the degree of B.Sc. with Honours in Chemistry or Technical Chemistry. It is tenable for the remainder of the student's academic course, and for a one-year post-graduate course in malting and brewing at the Heriot-Watt College, Edinburgh. The award of the Scholarship is subject to confirmation by the Brewers' Society's Scholarships Committee who will require to be satisfied that the candidate is a suitable person to enter the brewing profession and that it is his intention to do so on the completion of the course. Evidence of his intention must be given in the form of a signed statement before the award is confirmed. Apply to the Dean of the Faculty of Science by 15th September.

British Association Exhibition.—The income of this fund, amounting to £70 p.a., provides grants for travelling and other authorised expenses of advanced students (preferably Honours students) in Science at the University, to enable them to visit laboratories and museums outside of Edinburgh for advanced study, or localities affording opportunities for the study of material (marine, fresh-water, or terrestrial) of scientific importance. Grants are not made towards work which forms part of an ordinary class curriculum. Apply with specifications of the proposed study and details of the probable expenses to the Professor or head of the department in which the applicant is working before the end of February. Applications may also be lodged during the summer term up to 10th June; but in such cases a grant is conditional on a balance remaining. If more than one application is received from any one department, the Professor or head of the department will indicate an order of preference for a grant, which will generally depend on the stage of study reached by the various applicants.

British Association Meeting Exhibitions.—The University Court has made available three Exhibitions of £20 each to enable selected students to attend the annual meeting of the British Association for the Advancement of Science. The Exhibitions are intended to cover the cost of second-class return fare, student membership ticket, appropriate excursions and accommodation for the week of the Meeting. They may be held by students of standing (preferably Honours students) or recent Honours graduates in any of the subjects of the British Association Sections, namely Physics, Mathematics, Chemistry, Geology, Zoology, Geography, Economics, Engineering, Anthropology and Archaeology, Physiology, Psychology, Botany, Forestry, Education, and Agriculture. Candidates should submit their names, addresses and subject of study, to the Dean of the Faculty of Science, not later than 28th February.

Note.—The British Association may offer an additional Exhibition, under almost similar conditions.

1959, W. W. Bell (British Association Exhibition), O. J. Gillie, P. J. Kelsall, A. I. M. Rac.

Brodie Memorial Fund.—The income of this fund, amounting to £45 p.a., provides grants for deserving students in the department of Natural Philosophy, on the recommendation of the Professor.

Crum Brown Medal.—Awarded annually to the most distinguished student in the Arts and Science class of Chemistry.

1959, M. A. Day.

Department of Scientific and Industrial Research Studentships and Research Fellowships.—The Department of Scientific and Industrial Research is prepared to award studentships to graduates in Science; Research Fellowships to young research workers who have completed the normal course of post-graduate training in methods of research. Application for studentships

Faculty of Science

should be received by the D.S.I.R. not later than 1st March and should be made to the Head of the Department in the University under whom the applicant wishes to receive his training and by whom he wishes to be recommended.

Department of Agriculture for Scotland Post-graduate Agricultural Scholarships.—The Department of Agriculture for Scotland offers Agricultural Scholarships in Husbandry, Agricultural Economics, Statistics and Agricultural and Dairy Engineering. Applications should reach the Department of Agriculture for Scotland, St Andrew's House, Edinburgh 1, not later than 31st March.

Dewar Research Fellowship.—The holder must himself engage in research in Chemistry, or in Physics, or preferably in a field common to these subjects, and must direct the research of post-graduate students in the subject of his own researches. He may also be invited to deliver annually a short course of lectures in his field of study.

1958, Dr Nosworthy.

Dewar Research Fund.—The income of this fund is used for the purchase of apparatus and rare chemicals for research.

Duncan Flockhart Prize in Chemistry.—For the conditions of award apply to the Dean.

1959, Eileen L. Metcalfe, B.Sc.

Eidgenössische Technische Hochschule, Zürich, Exchange Scholarship.—The University Court has made available funds for a scheme for the exchange of technical students with the Eidgenössische Technische Hochschule, Zürich; one scholarship is awarded. For further particulars, apply to the Dean of the Faculty of Science.

1958-59, J. W. Dodds, B.Sc.

Garton Prize in Agriculture.—A prize of £20 (in the form of a credit with a bookseller) awarded annually in June to a student in Agriculture or Agricultural Botany including Mycology, the holder also to receive a silver gilt medal.

Hope Prize Scholarships.—Five scholarships of £24, 10s. for one year (and, for great distinction, for a second year); all awarded annually to the five most deserving students in the Chemical Laboratory. The holders, who will be exempted from laboratory fees, must work during their tenure of the scholarship in the Chemical Laboratory of the University and must assist the Professor of Chemistry. If a holder resigns or fails to fulfil the conditions, the Professor of Chemistry may recommend a student working in the Chemical Laboratory for the remainder of the vacated scholarship.

1958, J. Baillie, J. L. Duncan, A. Miller, C. H. J. Wells, Janet M. Norbury.

Imperial Chemical Industries Fellowships.—£800 to £1000 p.a. according to seniority and qualifications for 3 years; awarded to selected research workers of proved capacity and exceptional promise for research in Physics and Chemistry (including Physical Chemistry, Organic Chemistry, Biochemistry, Chemotherapy, Pharmacology, Engineering, Electronic Engineering, Chemical Technology, Chemical Engineering, or any subject related to Physics and Chemistry). Holders must devote their whole time to their research and may not undertake any work which conflicts with it, though they may take a limited part in the teaching in the department in which they work at the discretion of the head of the department. Holders may be admitted to the Federated Superannuation System for Universities, the stipends in all such cases being reduced by an amount equal to the contribution payable by the University. Consideration will be given to the granting of family allowances. Apply on the appropriate form to the Secretary to the University

Fellowships, Scholarships, and Bursaries

by 23rd February. Applicants are allowed to apply to not more than three of the universities offering these fellowships; they should indicate their order of preference. In the case of a successful applicant from one of the Dominions or Colonies, an allowance may be made towards defraying the cost of travelling to and from Great Britain.

1957, Elizabeth J. D. Watson, B.Sc. (Biochemistry); 1958, G. J. O. Verbeke, B.Sc. (Chemistry); P. I. A. Finan, B.Sc., M.Sc. (Organic Chemistry); J. Byrne, B.Sc., M.Sc. (Physics); J. G. Blackman, M.Sc. (Pharmacology).

Innes (Charles) Prize in Civil Engineering.—To be awarded annually, in the form of books as approved by the Professor of Engineering, to the foremost student in the Honours course of Civil Engineering based upon the results of classwork and degree examinations in the final year. The award may be withheld if there is no suitable candidate, or it may be divided equally in the event of a tie. No formal application or entry form is necessary.

1959, D. R. Fairbairn, B.Sc.

Irvine (Elizabeth Sinclair) Prize.—£26, 5s. ; awarded annually to the most distinguished graduate in Forestry.

1959, F. Connor, B.Sc.

Lucas (Norman) Prize.—£4, 10s. ; awarded annually to the most distinguished student in, alternately, the Chemistry (a) and the Natural Philosophy (b) classes.

1959, R. C. Dougal (b).

Macaulay Research Fellowship.—Available for award to a person co-operating in the work of the Professor of Animal Genetics, to whom application should be made.

1959, Dr Ken-Ichi Kato.

Macdougall (R. Stewart) Prizes.—Two prizes of £3, 5s. each, awarded annually, (a) to the best student in the Agricultural Zoology class, and (b) to the best student in the Forest Zoology class.

1959, R. J. M. Wilson (a).

MacGillivray Prize.—£5, 5s. ; awarded annually to the most distinguished student in the class of Zoology I.

1959, J. Henderson.

Mackay Smith Scholarships.—Two scholarships of £30 p.a. for 2 years, (a) in *Chemistry*, and (b) in *Natural Philosophy*; both awarded biennially on the basis of examinations in the respective subjects, the former (a) to students who have attended the Chemistry class, and the latter (b) to students who have attended the Natural Philosophy class. Candidates will be expected to submit properly authenticated records of laboratory work performed by them. The winners must attend respectively the Chemistry and the Natural Philosophy classes or prosecute the study of the subject for which the award was made, in the University during at least one year of their tenure in such a way as the Senatus may direct.

1957, J. L. Duncan (a). 1958, M. J. Landels, B.Sc. (b).

Miller (Henry Gilbert) Memorial Prize.—£11 awarded annually to a student for distinguished work in the Department of Agriculture.

1959, K. W. Fraser, B.Sc.

Miners' Welfare National Scholarship and Students' Exhibitions.—The Miners' Welfare Scholarships Selection Committee is prepared to receive applications for scholarships for (1) Post-graduate courses for second or higher degrees; (2) the interpolation of additional courses of study at any stage of a normal internal degree and (3) Exhibitions for vacation study and travel abroad. Applicants must be British subjects of not less than 17 years of age,

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must be or have been employed in the Coal Mining Industry of Great Britain or be the sons and daughters or dependents of any such persons. Full particulars of all awards together with forms of application can be obtained from H. Atkinson, B.A., Secretary, Miners' Welfare National Scholarships Scheme, 5 Hobart Place, London, S.W. 1. Apply by 24th January.

More (James Antony) Memorial Prize.—Awarded annually to the most distinguished student completing a full course in Crop Husbandry (Agriculture I) in the Department of Agriculture.

1959, J. McLean.

Nature Conservancy Research Studentships.—The Conservancy award a limited number of Research Studentships of one, two or three years' duration for post-graduate research training of the standard usually accepted for Ph.D. degrees. Applicants must be students in the Honours classes or holders of Honours degrees in Botany, Zoology or Physical Geography. Application forms will be forwarded on request to intending candidates who should return them completed not later than 1st April to the Director General, The Nature Conservancy, 19 Belgrave Square, London, S.W. 1.

Nuffield Biological Scholarships and Bursaries.—Scholarships of £500-£600 p.a. and bursaries of £350 p.a. tenable for one year but renewable up to a maximum tenure of three years, awarded to graduates who are in physics, chemistry, mathematics or engineering, but who have had no training in a biological subject. Successful applicants are required to undergo at an institution approved by the Foundation a course of training in the biological sciences, such as will enable them in due course to undertake research and teaching in the biological sciences in the United Kingdom. Forms of application and further details are obtainable from The Director of the Nuffield Foundation, Nuffield Lodge, Regent's Park, London, N.W. 1, with whom applications should be lodged by 1st April.

Post-Graduate Studentships, Research Grants and Fellowships (financed from general University funds).

Studentships.—£300 for one year, £320, £340 for second and third years, open to graduates of a recognised university, of I or II Class Honours or equivalent standing, who propose to take Honours in a second subject or undertake equivalent advanced study or research under supervision in the University of Edinburgh.

Research Grants.—Available to graduates of any university carrying out research under the direction of the Head of a Department of the University of Edinburgh, and to members of staff of the University.

Fellowships: Junior £500-550-£600; Senior £750-£800-£850: for original research, normally at the University of Edinburgh, open to graduates of any university.

Conditions of award and application forms for Studentships, Research Grants and Fellowships may be obtained from the Matriculation Office, or from the Offices of the Deans of the Faculties of Medicine and Science.

Ramsay Memorial Prize.—Books to the value of £4 awarded annually to the best student in the Astronomy class.

1959, D. G. Douglas and A. G. Milnes (*equal*).

Reid and Thomson Bursary in Civil and Practical Engineering.—£76 p.a. for 2 years (with a possible extension for a third year); awarded biennially on the basis of the first examination in Mathematics and Natural Philosophy qualifying for the B.Sc. degree in Engineering, the records of the candidates' laboratory work being also taken into account. Candidates on entering must produce evidence of having passed the Preliminary examination or its equivalent and of having attended during their first winter session courses in Mathematics and Natural Philosophy qualifying for the B.Sc. degree in Engineering. The holder must, unless excused by the Senatus, complete the first B.Sc. examination in Engineering during his first year's tenure of the

Fellowships, Scholarships, and Bursaries

bursary; and during his whole tenure he must prosecute his studies in Engineering in the University to the satisfaction of the Senatus and with a view to the B.Sc. degree in Engineering. If the holder passes the final examination for the B.Sc. degree in Engineering during the second year of his tenure, the bursary may be continued for a third year, during which he must undertake some original research work and assist in laboratory teaching in the Engineering Department. The bursary is not tenable along with any other fellowship, scholarship, or bursary in the University except with the express permission of the Senatus.

1958, P. N. L. Tranter.

Ritchie Fund.—The income of this fund provides grants for the promotion of chemical and physical research. The grants are made in November for work by the staffs of the Departments of Chemistry and Natural Philosophy.

Royal Commission for the 1851 Exhibition: Senior Studentships in Research.—£800 p.a. for 2 years (or, in special cases, for a longer period). The candidates, who are nominated by the University, must be British subjects of exceptional promise and proved capacity for original work in scientific research, to which they must devote their whole time for not less than two years. Apply to the Dean, from whom copies of the full regulations may be obtained, by 1st March.

Royal Society and Nuffield Foundation Commonwealth Bursaries Scheme.—Apply to the Dean for further information.

S.A.I. Prize.—£15, 15s.; books to this value awarded annually to the most distinguished student in the third year of the chemical technology course. (Presented by Scottish Agricultural Industries Ltd.)

1959, A. Maclean.

Shell Refining Co. Prize.—One prize of books to the value of 13 guineas and two prizes of books to the value of 6 guineas. Awarded annually to the three most distinguished students in the third year of the chemical technology course, with the proviso that one of the 6 guinea prizes is reserved for Heriot-Watt College students and the other for University degree students, the 13 guinea prize being equally available to either group.

1959, A. Maclean (1) and J. I. T. Stenhouse (2).

Stebbing Commemoration Medal in Forestry.—The income from the capital sum of £74 subscribed by Life and Student Members of the Edinburgh University Forestry Society will be used to provide a Bronze Medal to be awarded annually to the most outstanding student in the second year theoretical classes in Silviculture I and II. The assessors will be the Professor of Forestry and the Senior Lecturer in Forestry. The award may be withheld if there is no suitable candidate. No formal application is necessary.

1959, A. J. Kerr.

Stewart (Moir Lyndsay) Prize in Zoology.—£10; awarded annually to the most distinguished student in the class of Zoology II.

1959, R. J. M. Wilson.

Swiney Lectureship in Geology.—£170 p.a.; awarded to graduates in any Faculty. The holder must deliver a course of lectures on geology under arrangements to be prescribed by the Patrons during the period of his tenure of the lectureship. At the end of each course the holder must lodge a copy or a full abstract of the lectures with the Director of the British Museum (Natural History). Patrons, the Trustees of the British Museum. Apply for full particulars to the Director of the British Museum (Natural History), Cromwell Road, London, S.W. 7.

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Taylor Woodrow Prizes in Mechanical Engineering.—Two prizes of £35 and £15 to be awarded annually to the most distinguished students graduating in Mechanical Engineering. The prizes are to be used for the purchase of books, instruments, etc., as approved by the Professor of Engineering. A certain minimum attainment is necessary to qualify for an award. No formal application is required.

1959, S. C. Gary, B.Sc. (1); A. P. Liebing, B.Sc. (2).

Trevelyan (Arthur) Scholarships in Engineering.—Two scholarships of £15 p.a. for two years, awarded, one each year, to students who have attended the courses of the first year for the degree of B.Sc. in Engineering at the University of Edinburgh. The award will be made on the basis of the class examinations of the first year in Technical Mathematics I, Applied Mechanics I, Physics, and Drawing I.

1959, A. N. Lucas.

Turner (William) Prizes.—Two prizes of £25; awarded annually on the basis of class records and class and degree examinations to the best third- or fourth-year student (a) in Botany and (b) in Zoology during the year of the award.

1959, J. F. Williams (b).

Wallace Prize.—£6; awarded annually to a student in the third year of his course for the B.Sc. degree in Agriculture who is not a holder of a Vans Dunlop or a Steven scholarship in Agriculture.

1959, J. M. Manson, B.Sc.

Watt (Dr James) Bursary Fund.—The fund shall be known as "The Dr James Watt Bursary Fund" and the income from the fund shall be used to provide assistance to students in the Faculty of Science, Departments of Chemistry and Chemical Technology.

The income from the fund (which it is expected may amount to about £160 annually) shall be allocated in such manner as to assist one new student each year to the extent of approximately £40 a year (or more in exceptional circumstances, if funds are available) during the four years required for an Honours Course in Chemistry or Chemical Technology. Assistance may also be provided to particularly deserving students by awards for the purchase of specified text-books.

Awards from the fund shall be made by the Senatus on the recommendation of a Committee consisting of the Dean of the Faculty of Science, the Professor of Chemistry, the Professor of Organic Chemistry, and the Professor of Chemical Technology in the University of Edinburgh. In selecting candidates to whom to make award, the Committee shall have regard to the general character of the individual, his financial circumstances, as well as his academic qualifications or promise. If practicable, in selecting candidates the Committee shall give preference to those in some way connected with the Chemical Industry, particularly in Edinburgh, and especially with the firm of T. & H. Smith Ltd., and to candidates to whom necessary financial assistance is not readily available from such sources as State Bursaries, etc.

Notwithstanding these preferential provisions, the final decision in the choice of candidate shall remain within the absolute discretion of the Committee, and the funds may be used in any way which will fulfil the intention of the gift—namely, that no one worthy shall be debarred from taking an Honours Course in Chemistry or Chemical Technology, if such assistance as is made available here will enable them to do so.

The Committee shall not be bound to make an award if no suitable candidate offers, and they shall have power to withhold the annual payment of the award in any case where, in their opinion, the circumstances warrant such a course. The Committee shall also have power to assist, in so far as the income from

Fellowships, Scholarships, and Bursaries

the Fund allows, any Honours Graduate in Chemistry or Chemical Technology of Edinburgh University to undertake a Post-graduate Course, to be approved by the Committee, either in this country or abroad, but always keeping in mind that the chief object of the fund is to provide necessary assistance to deserving students studying to qualify for an Honours degree in Chemistry or Chemical Technology.

Younger (Harry) Medal for Practical Forestry.

1959, D. Campbell, B.Sc.

The following fellowships, scholarships, bursaries, and prizes are tenable by students in the Faculty of Science. Full details are given in the programmes of the Faculties indicated.

Anderson Henry Prize (Medicine)
Arnott (Neil) Scholarship for Experimental Physics (Arts)
Bartle Frere Memorial Fund (Arts)
Baxter of Balgavies Scholarships (Entrance Bursaries)
Biggam Memorial Medal and Prize in Pathology (Medicine)
Boots Drummond Memorial Prize in Biochemistry (Medicine)
British Council Travel Grants (Arts)
Brown (Richard) Scholarship (Arts)
Cameron (Lewis) Post-graduate Prize (Medicine)
Cameron (Lewis) Undergraduate Prize (Medicine)
Carmichael (Robert) Scholarship (Arts)
Carnegie Research Scholarships, Senior Scholarships, Fellowships, and Grants (Arts)
Cecil Peace Prize (Arts)
Cowan House Scholarships (Entrance Bursaries)
Dickson (William) Travelling Fund (Arts)
Dobbie Smith Prize in Botany (Medicine)
Dominion Students' Hall Trust (Arts)
Ellis Prize for Physiology (Medicine)
Ferguson Scholarships (Arts)
Fulbright Travel Grants (Arts)
Gilchrist Fund (Arts)
Gray Scholarship (Arts)
Grierson Verse Prize (Arts)
Gunning (Victoria Jubilee) Prizes (Medicine)
Highlands and Islands Educ. Trust Undergraduate Bursaries (Arts)
Jackson Tait Memorial Fund (Arts)
Kelland Memorial Prize (Arts)
Leverhulme Research Fellowships and Grants in Aid of Research (Arts)
Moray Endowment for the Promotion of Original Research (Arts)
Murchison of Taradale Memorial Trust (Arts)
Nichol Foundation Scholarship (Arts)
Rhodes University College Scholarships (Arts)
Ritchie Scholarships for Civil Service Candidates (Arts)
Shaw Macfie Lang Fellowship (Arts)
Sloan Prize (Arts)
Spence Bursaries (Arts)
Spence (Magnus) Memorial Prize (Arts)
Stevenson Exchange Scholarships (Arts)
Strathmore-Cobb Scholarships (Arts)
Stuart Bursary (Arts)
Thomson (Godfrey) Research Fund Bursaries (Arts)
Victoria Jubilee Bursary (for Women) (Arts)
Wardlaw (D. R.) Memorial Bequest (Arts)

FACULTY OF MUSIC
PROGRAMME

Dean of the Faculty of Music: PROFESSOR S. T. M. NEWMAN

TABLE OF COURSES

Terms;—Autumn—Oct. 13 to Dec. 18, 1959

Spring—Jan. 12 to March 18, 1960

Summer—Apr. 19 to June 17, 1960

Non-matriculated students are admitted to the classes marked with an asterisk on payment of an entry fee of £1 and the following class fees: Interpretation Class, £5; Orchestral Practice and Orchestration £8; Practical course in Musical Literature £8; History of Music I and Musica Form I £10.

Classes	Day of Opening	Hour	Professor and Lecturers
General			
GERMAN TUTORIAL COURSE (<i>Minto House</i> ; 3 terms) (p. 661)	Oct. 15	5	Dr. Furness
THE NATURE OF KNOWLEDGE (<i>Old College</i> ; Spring) (p. 661)			Dr. Broadie
Degree of B.Mus. (Ordinary)			
<i>First Year (Preliminary) Course (p. 675)</i>			
EAR TRAINING	Oct. 16	9	Dr. Fairbairn
HARMONY	Oct. 13	2	Dr. Grierson
KEYBOARD HARMONY	Oct. 16	12	Dr. Gal
ELEMENTS OF MUSIC	Oct. 13	3	Dr. Redlich
*PRACTICAL COURSE IN MUSICAL LITERATURE	Oct. 16	10	Dr. Fairbairn and Dr. Redlich
<i>Second Year Course (pp. 675-6)</i>			
HARMONY I	Oct. 13	3	Dr. Grierson
KEYBOARD HARMONY	Oct. 14	10	Dr. Gal
COUNTERPOINT I	Oct. 15	3	Mr. Leighton
*HISTORY OF MUSIC	Oct. 15	2	Dr. Redlich
*FORM I	Oct. 13	2	Prof. Newman
ELEMENTARY SCORE READING	Oct. 14	9	Dr. Fairbairn
ACOUSTICS (<i>Natural Philosophy Dept.</i>)	Oct. 14	12	Mr. Sillitto
<i>Third Year Course (p. 676)</i>			
HARMONY II	Oct. 19	11	Dr. Grierson
COUNTERPOINT II	Oct. 14	11	Mr. Leighton
*HISTORY OF MUSIC	Oct. 14	10	{ Prof. Newman and Dr. Redlich
FORM II	Oct. 16	11	Dr. Grierson
*ORCHESTRAL PRACTICE AND ORCHESTRATION II	Oct. 13	9.30	{ Prof. Newman and Dr. Fairbairn
COMPOSITION	Oct. 19	12	Mr. Leighton
PLAYING FROM SCORES	Oct. 15	9	Lecturers
<i>Fourth Year Course (p. 677)</i>			
HARMONY III	Oct. 19	11	Mr. Leighton
COUNTERPOINT III	Oct. 14	11	Prof. Newman
*HISTORY OF MUSIC	Oct. 14	10	{ Prof. Newman and Dr. Redlich
FORM III	Oct. 19	2	Dr. Grierson
*ORCHESTRAL PRACTICE AND ORCHESTRATION III	Oct. 13	10	{ Prof. Newman and Dr. Fairbairn
COMPOSITION III	Oct. 16	10	Mr. Leighton
PLAYING FROM SCORES	Oct. 13	9	Lecturers
Degree of B.Mus. with Honours			
<i>Final Honours Classes (pp. 677-8)</i>			
COMPOSITION	Oct. 13	2	{ Prof. Newman and Lecturers
HISTORY OF MUSIC	Oct. 13	3	
General Music			
*MUSICAL INTERPRETATION CLASS	Oct. 14	2.30	{ Prof. Newman and Dr. Grierson

INTRODUCTION

Admission to the Faculty of Music

Prospective entrants to the Faculty of Music for the purpose of taking the complete degree curriculum should consult the Programme of Admission to the University from which the following information has been abstracted.

Attestation of Fitness.—Every person wishing to begin a graduation curriculum must obtain a Certificate of Attestation of Fitness (see Programme of Admission, p. 3).

Further Entrance Qualifications.—For admission to the degree curriculum, applicants require to have passed in Music on the higher standard in the Leaving Certificate of the Scottish Education Department, or to provide some equivalent evidence of proficiency. They may also be required to provide evidence of having attained a sufficient standard in practical work at the pianoforte (see Programme of Admission). Applicants who aim at taking the degree of B.Mus. with Honours in History of Music are advised to have amongst their entrance qualifications a pass on the higher standard in French or German (see p. 671).

Applications for Admission.—Prospective entrants must apply for admission to the Faculty by 1st July on forms to be obtained from the Matriculation Office, The Old College, or from the Secretary, Reid School of Music, Park Place, Edinburgh, 8.

N.B.—For those, however, who intend to take the Qualifying Examination in June prior to entering upon the curriculum, the final date for receiving applications is 1st April (see Additional Regulations, p. 670, "The Qualifying Examination").

Submission of applications should not be postponed by reason of any delay in being able to forward the Attestation Certificate for inspection.

Dates of Qualifying Examination

The Qualifying Examination will be held on the following dates:—

		Sept. 1959	June 1960	
Paper I—Harmony	. . . M.	28	6	9-12
Paper II—General Knowledge of Music	. . . M.	28	6	2-4
Ear Tests and Practical Examination	Tu.	29	7	10

Director of Studies

The Dean of the Faculty, Professor Newman, is the Director of Studies. All communications requiring an answer should be accompanied by a stamped addressed envelope.

Procedure after Acceptance for Admission

A student who has obtained from the Dean a Certificate of Acceptance (or of provisional acceptance) for admission to the degree course and who wishes to enter for the Qualifying Examination in June or September prior to attending any course in the Faculty must matriculate on entering his name for that examination at the Matriculation Office, Old College, Edinburgh 8, and must pay the Matriculation Fee, £2, 12s. 6d., on or before the final date advertised for receiving entries. When entering his name he must produce the Certificate of Acceptance and, if available, the Attestation Certificate. When the Certificate of Acceptance is marked "Provisional", it authorises the recipient to matriculate only for the purpose of entering for the Qualifying Examination prior to attending courses. Acceptance for admission to the degree course in October can only be confirmed by the Dean after an Attestation Certificate has been submitted to him.

The dates of entry for the Qualifying Examination are:—

June examination	9th May 1960
September examination	2nd Sept. 1960

Graduation Students of ALL Years must consult the Director of Studies on Monday, 12th October (10 a.m.-1 p.m., or 2.30-4 p.m.) or, in the case of students resident *outside* Edinburgh, on Tuesday, 13th October (3-4 p.m.), and must obtain from the Director a pass to be presented to the Accountant's Office for the classes to be taken.

German Tutorial Course

Dr. FURNESS

On Mon. and Thurs., at 5 in Minto House, during the three terms. The course is intended for those students who desire a reading knowledge of German. A previous knowledge of the language is not necessary but students must be prepared for a good deal of private work if they are to obtain benefit from this brief course.

Text-book:—Barker, *Basic German for Science Students* (5th ed. Oliver and Boyd).

The Nature of Knowledge

Dr. BROADIE

About twelve lectures at times to be arranged to suit students of different faculties. This course is intended primarily for research students, but others may attend. It is a discussion of the nature and methods of science and of the problems concerning the nature of knowledge which arise in this connection.

Recommended preparatory reading:—Sinclair, *An Introduction to Philosophy* (Oxford).

This course will be held in 1959-60. Those interested should apply to Dr. F. Broadie.

FEES

NOTE.—*Students who were matriculated prior to 1st October 1956, and who have remained continuously matriculated continue to pay matriculation, class, inclusive and examination fees under the old regulations, details of which are contained in a pamphlet entitled "Fees—1956 Regulations". Students who first matriculated on or after 1st October 1956 are required to pay the annual fee, details of which are given overleaf.*

Faculty of Music

Table of Fees

The matriculation fee is £2, 12s. 6d.

The annual fee for the degree of B.Mus. is £35. This fee covers all examinations taken for the first time and all classes in the Faculty of Music (whether obligatory or optional) and also not more than two courses in the Department of Language and Literature in the Faculty of Arts which are necessary and desirable and approved by the Director of Studies.

The fee for the degree of D.Mus. is £10 on submission of a composition or treatise or on entering for the first part of the examination for Executants ; and £10 for entering for the examination (or for Executants, the second part thereof).

A late fee of £3 is payable in respect of late payment of the annual fee.

Non-graduating students admitted to certain classes pay the following fees:—

Interpretation Class	£5
History of Music 1)	
Music Form 1)	£10
Orchestral Practice and Orchestration . . .	£8
Practical Course in Musical Literature . .	£8

The re-examination fee for subjects of the B.Mus. degree is £1, 10s. per subject; for the Qualifying Examination £1, 10s. inclusive.

Formal Enrolment and Payment of Fees

Matriculation entries are accepted and the appropriate matriculation and class fees are collected together from

6th October to 13th November at Adam House, Chambers Street, from
10 a.m. to 12 noon, and
2 p.m. to 4.15 p.m. Mondays to Fridays, and from
10 a.m. to 12 noon on Saturdays.

16th November and after at the Matriculation Office, The Old College, from
10 a.m. to 1 p.m., and
2 p.m. to 4 p.m. Mondays to Fridays
10 a.m. to 12 noon on Saturdays.

Students whose enrolments are made after the following dates—
for the Autumn Term—31st October
for the Spring Term—31st January
for the Summer Term—15th May

will be required to pay a late fee of £3. From these dates a student must be able to produce a fee card, or other evidence of permission to attend before being admitted to a class. No student will be admitted to a qualifying course more than two weeks after the date of opening without the express permission of the Dean of the Faculty. Cheques should be in favour of the University of Edinburgh. It should be noted that fees cannot be collected by post.

All degree and non-graduating students are required to submit the following documents, duly completed:—

Matriculation Form A

Matriculation Form B (on first matriculation only)

Form of Account for fees (where these are payable by local authority or other public bodies).

Permit to matriculate

X-ray Certificate

Carnegie Trust Coupon (if any).

Matriculation Forms A and B and the Form of Account for fees are available at the place of enrolment.

Fees and Entry for Examinations

Students who require evidence of enrolment in order to obtain payment of their Grants from local authorities should apply in person for an appropriate certificate.

Enrolment for Degree Examinations

Candidates for examination must be matriculated for the year in which the examination falls. On entering for examination a student must present his matriculation card. Candidates must enter for each examination at which they wish to appear and must state the subject or subjects in which they wish to be examined.

Entries for degree examinations are received at the Matriculation Office, The Old College, on the following dates:—

March degree examination	26th Feb. 1960 (10-1, 2-4)
June degree examination	9th May 1960 (10-1, 2-4)
September-October degree examination	2nd Sept. 1960 (10-1)

Candidates for examination who do not enter their names on or before the advertised date may be allowed in exceptional circumstances to make a late entry on payment of an additional fee of £2, but in no circumstances will an entry be accepted if it is not made within seven days following the advertised date of entry.

If a candidate withdraws from or fails to appear at the first diet of examination, the charge for which is included in the annual fee, he may be allowed to appear at the subsequent diet without payment of the re-examination fee. For every re-entry a candidate must fill up a new form by the stated date. Candidates for re-examination who cannot pay their fees personally should transmit them, together with the appropriate entry form, to the Secretary to the University, The Old College, Edinburgh, by money or postal order, or by bank draft, crossed "Bank of Scotland (Hunter Square Branch), Edinburgh".

Failure to Complete the Final Honours Examinations

When a candidate fails to complete the Final Honours examinations for reasons beyond his control (for which written evidence must be produced) the Examiners shall immediately investigate the case and on the basis of the evidence available to them may recommend the award of a Degree or may recommend to Senatus that permission be given for the candidate to appear for examination at the next diet.

GRADUATION

Registration and Entry

Every student who, having passed all the necessary examinations, wishes to graduate, must matriculate for the academic year, if he has not already done so, must present the certificates of degree passes, and must pay £1 for registration as a member of the General Council if he is not already registered, as soon as possible after the intimation of the examination results and at the latest by 4 p.m. on the last day but two preceding the Graduation Ceremonial, except for one to be held on Wednesday for which these instructions must be complied with by 12 noon on the preceding Saturday. When entering for graduation, graduands must show their final inclusive fee and current matriculation cards. Degrees are not conferred *in absentia*, except when very special cause has been shown.

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Graduation Ceremonial

Men graduands for the degrees of B.Mus., Ph.D., and D.Mus. are requested to appear in black or dark coloured clothes, white starched collars, and white bow neckties; the wearing of evening clothes has long been customary, and, while it is not obligatory, such a costume is to be preferred. Women graduands for the same degrees are requested to wear black or white dresses without any colour. All graduands must appear in academic costume with the hood appropriate to the degree to be conferred. The form of gown for the B.Mus. degree is one of black silk with long sleeves. The hood is scarlet silk, with white silk lining, and edged with white fur. For the academic dress for other degrees, see UNIVERSITY CALENDAR "Academic Costume." There will be Graduation Ceremonials on 24th October and 18th December 1959, and on 7th, 8th and 20th July 1960.

Sponsio Academica at Graduation

The Sponsio academica at graduation is:—"Nos qui nomina subsignamus siue baccalaureatus siue magisterii siue doctoratus titulo iamiam donandi spondemus nos in omni debitae gratitudinis officio erga Vniuersitatem Academicam Edinburgensem ad extremum uitae halitum perseueraturos."¹

¹ TRANSLATION:—"We, the undersigned, upon whom the degree of bachelor or master or doctor is now to be conferred promise that we will to our latest breath abide in all due loyalty to the University of Edinburgh."

REGULATIONS FOR THE DEGREES OF BACHELOR OF MUSIC AND DOCTOR OF MUSIC¹

I. Two degrees in Music may be conferred by the University of Edinburgh, namely, Bachelor of Music (B.Mus.) and Doctor of Music (D.Mus.). The degree of Bachelor of Music may be conferred as an Ordinary degree or as a degree with Honours.

II. Every candidate for the degree of Bachelor of Music must satisfy the conditions as to admission to the Scottish universities for the purpose of graduation as specified under Ordinance of the University Courts No. LXX General No. 3 (Regulations as to Admission to the Scottish Universities for the purposes of graduation), or under any Ordinance passed or to be passed to alter or amend that Ordinance.

Ordinary Degree of Bachelor of Music

III. Candidates for the Ordinary degree of Bachelor of Music must attend courses of instruction in the University of Edinburgh during the Autumn and Spring Terms of *four* academical years. On the recommendation of the Faculty of Music, the Senatus may grant exemption from attendance during one academical year, namely, the first year of the curriculum, and in special circumstances or in the case of a candidate who has already successfully completed a part or the whole of the curriculum qualifying for a degree in Music in another University, the Senatus, on a similar recommendation, may grant such exemption for not more than three academical years.

IV. For the Ordinary degree of Bachelor of Music there shall be three separate examinations, namely, the Qualifying Examination, the First Degree Examination and the Second Degree Examination. The Qualifying Examination may be taken by candidates before they enter upon any part of the curriculum provided they shall have fulfilled duly all such conditions pertaining to enrolment of names and payment of fees as the University Court in consultation with the Senatus may determine.² Except in such cases the Qualifying Examination shall be taken on completion of the first year (Preliminary Course) of the curriculum. Except with the special permission of the Senatus Academicus the First Degree Examination shall not be taken until the candidate has completed the second year of the curriculum, nor shall the Second Degree Examination be taken less than one year after the candidate has passed the First Degree Examination. In special circumstances only and upon a recommendation by the Faculty of Music, the Senatus may grant exemption from the Qualifying Examination and similarly from the First Degree Examination. No one, except he shall have been granted such exemption from the Qualifying Examination, shall be admitted to the second year curriculum for the purpose of qualifying for a degree in Music until he has passed the Qualifying Examination, subject only to the provision stated hereafter in Section VI (7).

V. The examinations for the Ordinary degree shall be partly written and partly oral and practical.

¹ University Court Ordinance, No. 101. This Ordinance was approved on 13th May 1954 Under Section XXIV of this Ordinance, University Court Ordinance No. 52 is repealed.

² See Additional Regulations, p. 670, "The Qualifying Examination."

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VI. The following shall be the subjects of the Qualifying Examination¹:—

- (1) Playing at sight upon the pianoforte.
- (2) Written Ear Tests in Harmony and Melody.
- (3) Diatonic Harmony in four parts, and Elementary Free Counterpoint in two parts.
- (4) Harmonisation at the keyboard.
- (5) A general knowledge of music from A.D. 1700 to 1900.
- (6) Elements of Music, Notation and Musical Terminology.
- (7) Performance upon an approved musical instrument, or singing.

(Candidates who fail to satisfy the examiners in this subject in the Qualifying Examination, but who pass that examination in all other subjects prescribed, shall be allowed to proceed to the next year of the curriculum but must satisfy the examiners in this subject in the First Degree Examination.)

VII. The following shall be the subjects of the First Degree Examination for the Ordinary degree:—

- (1) Performance upon an approved musical instrument, or singing. (Candidates who have already satisfied the examiners in this subject in the Qualifying Examination shall be excused examination in this subject in the First Degree Examination.)
- (2) Playing at sight upon the pianoforte passages employing any of the clefs, and transposition of melodies.
- (3) Harmonisation at the keyboard.
- (4) Harmony in not more than four parts.
- (5) Counterpoint in not more than three parts.
- (6) History of Music.
- (7) Form: Fugue, Sonata, Rondo, and Minor Structures.
- (8) Acoustics in so far as connected with the Theory of Music and the Physiology of the Vocal Organs.

VIII. The following shall be the subjects of the Second Degree Examination for the Ordinary degree:—

- (1) Harmony in not more than five parts.
 - (2) Counterpoint and Fugue in not more than four parts.
 - (3) Form (description of Structures and Character of Musical Form, including Concerto, Variation, and Symphonic Movements).
 - (4) Instrumentation and critical knowledge of prescribed scores.
 - (5) History of Music (prescribed periods).
 - (6) Playing at sight from vocal and orchestral scores, and from figured bass.
- In addition, each candidate shall be required to submit exercises composed by himself as the Senatus may from time to time prescribe.²

IX. The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power:—

- (a) to vary the subjects prescribed for any of the examinations for the Ordinary degree;
- (b) to introduce additional subjects;
- (c) to require attendance during one or more of the summer terms of the academical years required for the curriculum;
- (d) to fix the standards of the Degree Examinations and the conditions of admission thereto:

¹ Two papers will be set, one in subject (3) and one covering subjects (5) and (6).

² See Additional Regulations, p. 670, "Exercises prescribed."

provided always that the University Court shall communicate to the General Council all such regulations, and that any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

Degree of Bachelor of Music with Honours

X. The degree of Bachelor of Music may be conferred with Honours in the departments of (a) Composition, (b) History of Music, under the following conditions:—

(1) The candidate must have attended in the University of Edinburgh during a period of not less than two academical years courses comprising Harmony, Counterpoint, Instrumentation, History of Music and Composition, and have passed the First and Second Examinations for the Ordinary degree of Bachelor of Music in all the subjects prescribed.

(2) After passing the examinations specified in sub-section (1), the candidate must have pursued advanced studies in the University of Edinburgh for at least one academical year of three terms *either* in Composition *or* in the History of Music. No candidate shall be admitted to such advanced studies except upon the recommendation of the examiners for the Second Examination for the Ordinary degree of Bachelor of Music or upon a recommendation by the Faculty of Music.

(3) There shall be two grades of Honours, to be denominated respectively first- and second-class. The names of candidates entitled to Honours in each class shall be arranged alphabetically.

(4) The award of grades of Honours shall be based on the candidate's performance in a Final Examination, the nature of which shall be prescribed by the Senatus with the approval of the University Court.

(5) A candidate may not present himself for re-examination for Honours in the department in which he has been examined.

(6) A candidate who has obtained Honours in one department may, under regulations prescribed by the Senatus, with the approval of the University Court, present himself for examination in another.¹

XI. The Senatus may, upon a recommendation by the Faculty of Music, grant exemption from compliance with the terms of Section X (1) to candidates who at the time of admission to the University of Edinburgh have already successfully completed a part or the whole of the examinations for the degree of Bachelor of Music or for the degree of Bachelor of Arts with Honours in Music at another University, provided always that a candidate granted such exemption shall be required to attend courses of instruction at the University of Edinburgh during not less than two academical years before he shall be admitted to the Final Examination for the degree of Bachelor of Music with Honours.

XII. The Senatus, by regulations made from time to time, with the approval of the University Court, shall have power—

- (a) to add to the departments in which the degree may be taken with Honours;
- (b) to prescribe and define the subjects of the Final Examination for the degree of Bachelor of Music with Honours²;
- (c) to require the submission of an exercise or a thesis by candidates for that examination;
- (d) to prescribe such subsidiary subjects for the examination in any department as may be deemed desirable, whether as compulsory or as optional subjects:

¹ See Additional Regulations, p. 672, "Conditions of Admission to Second Honours Course."

² See Additional Regulations, pp. 670-2.

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provided always that the University Court shall communicate to the General Council all such regulations, and that any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

XIII. Subject to the provisions prescribed in Section X (2), a candidate who has already graduated as a Bachelor of Music (Ordinary degree) in the University of Edinburgh may present himself for examination in Honours. If he be successful in obtaining Honours, he shall receive a special certificate stating the department of Honours in which he has presented himself and the class he has obtained.

Degree of Doctor of Music

XIV. The degree of Doctor of Music (D.Mus.) may be conferred in three departments, and the candidates may present themselves in one or more departments. The departments shall be those of—

(1) Composers, (2) Executants, (3) Theorists or Historians.

XV. (1) Bachelors of Music of the University of Edinburgh of not less than three years' standing and not less than twenty-five years of age shall be eligible to present themselves as candidates for the degree of Doctor of Music.

(2) Bachelors of Music of other Universities recognised for the purpose by the University Court may be admitted as candidates for the degree of Doctor of Music at the University of Edinburgh upon the recommendation by the Faculty of Music and upon such conditions as the University Court after consultation with the Senatus may determine, always provided that it shall be a condition of such admission that the candidate shall engage in special study or research on a subject approved by the Faculty of Music for a period of not less than one academical year during which period the candidate must be a matriculated student of the University of Edinburgh in the Faculty of Music.¹

XVI. (1) Candidates for the degree of Doctor of Music as Composers shall submit one or more musical compositions as herein prescribed. Each work shall be the original and unaided composition of the candidate and shall be accompanied by a declaration to that effect signed by the candidate.

Every candidate shall submit *either* (a) an extended work for voices and full orchestra (oratorio, opera, cantata), *or* (b) an extended work for full orchestra (symphony, symphonic poem, variations, suite, concerto), *or* (c) an overture or fantasia for full orchestra, together with one of the following: an extended work for chamber-music ensemble, a song-cycle, or an extended work for unaccompanied voices in five or more parts.

A candidate may submit additional compositions, but not more than three in all.

(2) Candidates shall be examined in the following subjects: (a) Counter-point in six or more parts; (b) Fugal Writing in five or more parts; (c) Orchestration; (d) History of Music, based on a knowledge of the works of the great composers from Palestrina onwards.

The examination shall be partly written and partly oral.

(3) No candidate shall be admitted to the examination under sub-section (2) until a musical composition or compositions submitted by him under sub-section (1) shall have been approved by the Faculty of Music on the recommendation of the Examiners.

¹ See Additional Regulations for Degree of D.Mus., p. 673.

B.Mus. and D.Mus. Regulations

XVII. (1) Candidates for the degree of Doctor of Music as Executant shall be required to show their technical skill and artistic judgment in the performance of solo and ensemble works in different styles. They shall be required to satisfy the Examiners that they possess an extensive repertoire. The works to be performed shall be selected partly by the candidates and partly by the examiners from a repertoire previously submitted to and approved by the examiners.

(2) Candidates shall be examined in Sight Reading on their special instrument and in playing from Orchestral Scores at the piano, and shall be required to show some facility in extemporisation. They shall also be examined in the following subjects: (a) History of Music, based on a knowledge of the works of the great composers from Palestrina onwards; (b) the History and Music of their special instrument.

The examination shall be partly written and partly oral and practical.

(3) Candidates may present themselves for examination under the requirements of the two foregoing sub-sections either on two separate occasions or at one and the same examination.

XVIII. (1) Candidates for the degree of Doctor of Music as Theorists or Historians shall present one or more treatises on theoretical or historical subjects, which shall be the result of research and original thought, not mere abstracts or compilations of existing works. These shall be accompanied by a declaration signed by the candidate that they are his own unaided work.

(2) Candidates shall be examined in (a) Theory of Music; (b) the History of Music. The examination shall be on a higher standard in the subject which the candidate selects as his speciality. The examination shall be partly written and partly oral.

(3) No candidate shall be admitted to the examination under sub-section (2) until a treatise or treatises submitted by him under sub-section (1) shall have been approved by the Faculty of Music on the recommendation of the Examiners.

XXIV. This section of the Ordinance makes the following provision:— A student who, at the date when this Ordinance comes into operation, has already commenced his course of study with a view to graduation in Music in the University of Edinburgh under the Regulations in force at that time may complete his course and become a candidate for the degree of Bachelor of Music or for the degree of Doctor of Music in conformity with such Regulations; but if any such student elect to complete his course with a view to graduation under the Regulations contained in this Ordinance, the Senatus shall have power to determine the conditions under which the courses of study pursued and the examinations passed by him may be accepted as equivalent to the courses and examinations prescribed by this Ordinance.

XXV. This Ordinance shall come into force from and after the date of its approval by Her Majesty in Council.

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ADDITIONAL REGULATIONS FOR THE DEGREE OF B.MUS.

ORDINARY DEGREE

The Qualifying Examination

1. The Qualifying Examination shall be held in June and September.
2. The Qualifying Examination may be taken by candidates in June or September before they enter upon any part of the curriculum leading to the degree of B.Mus. upon the following conditions:—
 - (i) Application for admission to the Faculty of Music must have been made on or before the advertised date, addressed to the Dean of the Faculty of Music. The final date for receiving applications is:—
 - (a) for those intending to take the Qualifying Examination in June prior to entering upon the curriculum. 1st April.
 - (b) for all other applicants. 1st July.
 - (ii) The applicant must have obtained from the Dean of the Faculty a certificate of provisional acceptance before he may enter his name for the examination.
 - (iii) The candidate must matriculate on entering his name for the examination at the Matriculation Office and must pay Matriculation Fee £2, 12s. 6d. on or before the date advertised for receiving entries. He will be required to produce the certificate of provisional acceptance at that time.
 - (iv) A candidate who presents himself for the Qualifying Examination prior to entering upon the curriculum and who fails in any subject of that examination other than instrumental performance or singing (Ordinance VI (7)) will not be admitted to re-examination until he has completed the Preliminary Course (*i.e.* in the following June).
3. The final dates for receiving entries for the Qualifying Examination will be the same as for the June and September Degree Examinations.
4. Candidates who have completed the Preliminary Course must pass all of subjects (1) to (6) of the Qualifying Examination not later than September of the same academical year. Those who have not so passed will not be permitted to re-enter for the examination.

Exercises Prescribed for the Second Degree Examination

Each candidate for the Second Examination for the Ordinary degree shall be required to submit the following exercises composed by himself:—(a) a solo song with pianoforte accompaniment; (b) a composition for unaccompanied voices in four parts; (c) an instrumental composition *either* for solo pianoforte or organ *or* for chamber-music ensemble comprising three or more string or wind instruments or pianoforte and one or more such instruments.

General Regulations Governing Examinations for the Ordinary Degree

1. Except with the special permission of the Senatus Academicus, candidates for the examinations for the degree of Bachelor of Music must present themselves for examination in all the subjects prescribed at one and the same examination, with the exception that candidates for the Second Degree Examination shall be permitted to postpone the presentation of the prescribed exercises until not later than the end of the academical year following that in which they first presented themselves for the examination.

B.Mus. and D.Mus. Regulations

2. Candidates who fail in any part of an examination at the first attempt, when presenting themselves for re-examination, shall be required to present themselves in all the subjects in which they failed at the previous examination.

3. Except with the special permission of the Senatus Academicus, candidates for the First or Second Degree Examinations who have failed to pass all the subjects of either examination by the end of the academical year following that in which they first presented themselves for such examination must present themselves again for the whole examination in all the subjects prescribed.

DEGREE WITH HONOURS

The Final Examination for B.Mus. with Honours

A. WITH HONOURS IN COMPOSITION

The subjects of the Final Examination for the degree of Bachelor of Music with Honours in Composition shall be:—

- (i) Counterpoint in five parts (sixteenth-century styles).
- (ii) Fugue in four parts.
- (iii) Canon.
- (iv) Harmony in not more than five parts.
- (v) Orchestration.
- (vi) Critical Analysis (including formal structure, style, harmonic and contrapuntal theory).

One paper will be set in each of these subjects.

In addition, the candidate must submit (not later than 1st May of the year of the examination) an original composition written in ink and accompanied by a special declaration that it is his own unaided work. This composition must be *either* (a) a work for chorus and orchestra small or large, with or without solo voices, and containing a substantial proportion of choral writing *or* (b) an orchestral work in one or more movements *or* (c) a chamber work for not less than four instruments (or three if the pianoforte forms part of the ensemble) in not less than three movements and occupying not less than fifteen minutes in performance.

A *viva voce* examination may also be required.

B. WITH HONOURS IN HISTORY OF MUSIC

PRELIMINARY QUALIFICATIONS IN FOREIGN LANGUAGES

Before admission to the curriculum for the degree of Bachelor of Music with Honours in History of Music.

(i) a candidate must have attended the First Ordinary Degree Class and have passed the First Ordinary Degree Examination on the standard required for the degree of M.A. in *either* French *or* German. Exemption from this requirement may be granted, in special cases only, on a recommendation of the Faculty of Music with the approval of the head of the language department concerned. The qualifications for admission to these classes are stated in the Programme of the Faculty of Arts, viz., a pass in the language concerned on the higher standard in the Scottish Leaving Certificate or the University Preliminary Examination (or some equivalent evidence of proficiency).

(ii) In addition, the candidate must provide satisfactory evidence that he possesses a reading knowledge of a second foreign language chosen from the following:—(a) French; (b) German; (c) Italian; (d) Latin.

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SUBJECTS OF EXAMINATION

The subjects of the Final Examination for the degree of Bachelor of Music with Honours in History of Music shall be:—

(1) General History of Music (including questions on style and social background and relevant developments in the other arts).

(2) One of the following special periods of the History of Music:—

(a) 1400-1640.

(b) 1600-1760.

(c) 1740-1830.

(d) 1820-1910.

The period or periods which may be offered in any year will be announced by the Faculty of Music not later than the Spring Term of the preceding academic year.

(3) *either* The General History of Music in England and Scotland (1400-1910), *or* Critical studies in "English and Scottish Song and Folksong."

(4) History of European Musical Instruments and Notation, including editorial questions on the transcription and interpretation of musical texts.

(5) A foreign language: Translation from a prescribed book or books of *either* of the following languages, and questions upon the subject matter:—

(a) French.

(b) German.

Two papers will be set in subject (1) and one paper in each of subjects (2) to (5).

In addition, the candidate must submit (not later than 1st May of the year of the examination) *either* a thesis upon one of the following subjects:—

(a) An important musical work or group of works.

(b) A historical period of music.

(c) A subject pertaining to the development of musical theory or musical aesthetics.

or the result of research work in transcribing and editing (with commentary) an approved MS.

A *viva voce* examination may also be required.

Conditions of Admission to a Second Honours Course

A candidate who has obtained Honours in one department may present himself for examination in another department provided:—

(a) that he has been recommended by the Faculty of Music for admission to advanced studies in the department concerned;

(b) that he has completed the course of studies therefor;

(c) that not more than five years have elapsed since he first obtained Honours.

ADDITIONAL REGULATIONS FOR THE DEGREE OF D.MUS.

**1. Admission of Bachelors of Music of other Universities as
Candidates for the Degree of Doctor of Music**

Bachelors of Music of other Universities recognised for the purpose by the University Court may be admitted as candidates for the degree of Doctor of Music under the following conditions:—

(i) Before they may be admitted to the examination, they shall be matriculated students for one academical year in the Faculty of Music of the University of Edinburgh, engaged in study or research approved by the Faculty of Music.

(ii) Before submitting any composition or treatise they must have completed their second term of such study or research.

(iii) On admission to the Faculty of Music they shall pay a fee of £6.

(iv) Those who have taken the degree of Bachelor of Music as an internal degree (under regulations requiring residence) shall report in person to the Professor of Music at Edinburgh once in each of the three terms and shall furnish satisfactory evidence as to the progress of their studies or research.

(v) Those who have taken the degree of Bachelor of Music as an external degree shall reside in Edinburgh during the first two terms (Autumn and Spring Terms) and shall attend one or more classes prescribed for the Ordinary or Honours degree of B.Mus., as the Faculty may in each case determine. In the third term they shall report in person once to the Professor of Music.

(vi) Before they may submit themselves as candidates in any part of the examinations for the Doctorate, they shall be not less than twenty-five years of age and not less than three years shall have elapsed from the time of their obtaining the Bachelor's degree (or such longer interval as may be required for the Doctorate by the regulations of the University in which that degree has been obtained).

**2. Regulations Governing the Examinations for the
Degree of Doctor of Music**

(i) The examination for the degree of Doctor of Music shall be held once a year before the opening of the Autumn Term. Candidates in the Department of Executants shall, however, be permitted to undergo the first part of the examination (see XVII (i)) in the preceding June if they so desire.

(ii) Candidates submitting musical compositions or treatises shall send them to the Secretary to the University together with the fee prescribed so that they are received not later than the 20th April preceding the examination.

(iii) Compositions and treatises submitted must be bound and paged and lettered on the back with title and composer's or author's name. Treatises must be in duplicate, and if not already published, must be typescript.

(iv) One copy of each musical composition or treatise submitted for the degree and approved by the Faculty of Music shall remain in the possession of the University for deposit in the Library.

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(v) Candidates desiring to present themselves in the Department of Executants shall send to the Secretary to the University two typescript copies of a statement of the repertoire which they are offering. These must be sent in not later than 20th April (for examination in June) or 30th June (for examination in October). Candidates desiring to show evidence of a wider repertoire than that immediately offered by them may at the same time submit copies of different programmes (not exceeding ten) relating to concerts or recitals at which they have performed. Candidates will be notified in writing as to whether the repertoire submitted is approved by the examiners.

(vi) The dates for receiving names for the examination for the degree of Doctor of Music shall be the same as those relating to the degree of Bachelor of Music, but no late entry shall be permitted.

COURSES OF INSTRUCTION AND SUBJECTS OF EXAMINATION¹

PROFESSOR NEWMAN; Dr. MARY GRIERSON, Senior Lecturer; Dr. FAIRBAIRN, Dr. REDLICH, Mr. LEIGHTON, and Dr. GAL, Lecturers; Mr. SILLITTO, Lecturer in Acoustics.

First Year (Preliminary) Course

The Preliminary Course, in preparation for the Qualifying Examination, comprises the following classes:—

1. **Ear Training.**—Mon. and Fri. at 9 (Dr. Fairbairn).

2. **Harmony.**—Tues. and Thurs. at 2 (Dr. Grierson).

Books required:—Lovelock, *First Year Harmony* (publ. Hammond). Bach's Four-Part Chorales.

3. **Keyboard Harmony.**—Fri. at 12 (Dr. Gal).

Book required:—Morris, *Harmony at the Keyboard*.

4. **Elements of Music.** Tues. at 3 (Dr. Redlich).

5. **Practical Course in Musical Literature.**—Mon. and Fri. at 10 (Dr. Fairbairn and Dr. Redlich). This course will be devoted to a general study of a wide range of standard "classics" of the period A.D. 1700-1900 including orchestral, choral, operatic and solo instrumental music, and song. Students taking this course are required to attend regularly at frequent gramophone sessions, and daily for practical work in the studio.

Second Year Course

This course prepares for the First Examination for B.Mus. (Ordinary) and comprises the following classes:—

6. **Harmony I.**—Tutorial, Tues. at 3. Lecture (Spring Term only), Mon. at 12 (Dr. Grierson). Keyboard Harmony, Wed. at 10 (Mr. Leighton).

Books required:—Buck, *Unfigured Harmony*; Bach's Four-part Chorales (recommended edition—371 Chorales, Schirmer). Lovelock, *Second Year Harmony* (publ. Hammond).

7. **Counterpoint I.**—Thurs. at 3 (Mr. Leighton). The Course is devoted to strict counterpoint and to two-part Invention.

Book required:—Bach, *Two-Part Inventions* (any edition).

8. **History of Music I.**—Tues., Thurs. and Fri. at 2 (Dr. Redlich). A course of illustrated lectures on the outlines of musical history dealing with (i) the position of music in cultural history; (ii) the main periods and schools, and their mutual relations; (iii) development of style and form; (iv) the great masters and their main works in the context of this development.

Books required:—Parry, *Outlines of Musical History*; Einstein, *A Short History of Music* (enlarged edition).

Books recommended for reference:—*The Oxford History of Music*; Cobbett, *Encyclopædic Survey of Chamber Music*; Grove, *Dictionary of Music and Musicians*.

¹ The class hours stated apply only to the autumn and spring terms. For the summer term tutorial hours will be arranged as convenient.

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9. **Form I.**—Mon. at 2 (first meeting Tues. Oct. 13, at 2). (Professor Newman). The course provides a general introduction to musical form and a detailed study of the classical Suite, Fugue, Sonata and Rondo.

Books required:—Bach's Forty-eight Preludes and Fugues (Assoc. Board ed. Tovey); Beethoven's Pianoforte Sonatas (Assoc. Board), Vols. I and II; Morris, *The Structure of Music*.

10. **Elementary Score Reading.**—Wed. at 9 (Dr. Fairbairn). A practical course in playing from all the clefs and in transposition.

Book required:—Howard Ferguson, *Preparatory Exercises in Score-Reading*.

11. **Acoustics.**—Mon., Wed. and Fri. at 12 (autumn term only). An elementary course in the physics of sound, including the definition and history of pitch standards and of the musical scales; and applications of the theory in connection with (1) problems of hearing; (2) a detailed study of the production of sound by the musical instruments and the human voice; (3) the acoustics of buildings.

Third Year Course

12. **Harmony II.**—Mon. at 11 (Dr. Grierson). The work of this class will comprise the study of chromatic harmony, the harmonisation of melodies in four-part harmony (for strings or voices) and the writing of accompaniments.

Books required:—Buck, *Unfigured Harmony*; H. K. Andrews, *The Oxford Harmony*, Vol. II.

13. **Counterpoint II.**—Wed. at 11 (Mr. Leighton). The work of this class comprises Invention, Fugue, and Sixteenth-century Counterpoint in 3 parts.

Books required:—Bach's *Three-part Inventions* and Forty-eight Preludes and Fugues.

14. **History of Music.**—Mon. and Wed. at 10, (Professor Newman and Dr. Redlich). This is a joint class of Third and Fourth Year students. Each year one of the following special periods of musical history will be studied—(1) 1600-1750, (2) 1740-1827, (3) 1820-1900. Within the two years every student will study period (2) together with one of the other periods which will be taken alternately. Period (2) is prescribed for 1959-60 period, (3) for 1960-61.

Books required:

Period (1) Bukofzer, *Music in the Baroque Era* (Dent); Westrup, *Purcell* (3rd ed. Dent).

Period (2) Einstein, *Mozart*; Geiringer, *Haydn*.

Period (3) Einstein, *Music in the Romantic Era*; A. Hedley, *Chopin*; Dyneley Hussey, *Verdi*; P. Latham, *Brahms*.

15. **Form II.**—Fri. at 11 (Dr. Grierson). The larger-scale examples of Sonata and Rondo, Ritornello forms and Concerto.

16. **Orchestral Practice and Orchestration II.**—(Professor Newman and Dr. Fairbairn), Tues. at 9.30 and Thurs. at 10 (Orchestral Practice), and Fri. at 10 (Lecture). Students may join this class as players in the Orchestra, or as students of orchestration only. Those who show sufficient merit as players may be allowed to take part in the orchestral concerts.

Courses of Instruction

Books required:—Miniature scores of the works prescribed for special study. The list is published at the beginning of each session.

Students are also advised to possess their own scores of all major works rehearsed for the orchestral concerts.

At the Orchestration class, the characteristics of the principal orchestral instruments will be surveyed. The student will then pass to practical work consisting of graduated exercises in orchestration.

Books required:—Gordon Jacob, *Orchestral Technique*; Walter Piston, *Orchestration*.

17. Composition.—(Mr. Leighton).—One hour tutorial per week at times to be arranged.

18. Playing from Scores.—Thurs. at 9 (in tutorial divisions). Practical instruction in playing from figured bass and from instrumental and vocal scores of 4 or 5 staves.

Books required:—Bach, *Kunst der Fuge* (ed. Tovey, O.U.P.) and other scores as recommended by the Lecturer.

Fourth Year Course

19. Harmony III.—Mon. at 11 (Mr. Leighton). Five-part writing for strings and voices, and accompaniments to melodies, etc.

20. Counterpoint III.—Wed. at 11 (Prof. Newman). Fugue in 3 and 4 parts, and counterpoint in sixteenth-century styles, in 4 parts.

21. History of Music.—Mon. and Wed. at 10. (See class No. 14, p. 676.)

22. Form III.—Mon. at 2 (Dr. Grierson). Variation, Concerto and Symphonic forms, etc.

23. Orchestral Practice, and Orchestration III.—Tues. at 10 and Thurs. at 9.30 (Orchestral Practice) and Fri. at 11 (Lecture). (See class No. 16, p. 676.)

24. Composition.—Mr. Leighton. One hour tutorial per week at times to be arranged.

25. Playing from Scores.—Tues. at 9 (in tutorial divisions). Playing from figured bass of Bach cantatas etc., and from orchestral scores.

General Class (for all years)

26. Musical Interpretation (the study of chamber music and solo music, vocal and instrumental).—Mon. at 3 and Wed. at 2.30. Students may attend this class as players or as listeners. Degree students are advised to regard this class as standing to solo and chamber music as the Orchestral class stands to orchestral music. The works studied in this class are chosen by the students themselves, subject to the guidance of the Professor or Lecturer. From time to time demonstration is provided by professional artists such as the New Edinburgh Quartet.

Enrolment in this class is open to students of any Faculty and to non-graduation students.

Curriculum of Advanced Studies for Honours B.Mus.

For Honours in Composition.—Tutorials will be given for one hour per week for three terms in each of the following subjects at hours to be arranged.

(1) Counterpoint (Prof. Newman). Five-part counterpoint in Italian and English styles of the sixteenth century.

Faculty of Music

- (2) Fugue and Canon (Mr. Leighton). Four-part fugal writing in different styles, and two-part Canon of various types with or without additional free parts.
- (3) Harmony (Mr. Leighton). Advanced harmony; five-part writing for instruments and voices, and original composition.
- (4) Orchestration (Dr. Fairbairn). Exercises in orchestration using up to a full modern orchestra.
- (5) Critical Analysis (Dr. Grierson). The critical study of a number of works of different genres and styles with special reference to their formal design and the technical methods employed.

For Honours in History of Music (Professor Newman, Dr. Redlich, Dr. Gal).—Lectures or tutorials will be given in each of the following subjects at hours to be arranged (to the number stated). These will be distributed throughout three terms.

	Hours per Session
(1) General History of Music	44
(2) Special Period of History of Music	22
(3) History of Music in England and Scotland <i>or</i> English and Scottish Song and Folksong	22
(4) History of Musical Instruments and Notation	18
(5) Foreign Language: prescribed book (tutorials)	5

The books prescribed for study under (5) Foreign Language are:—

For Period (b) 1600-1760—

André Pirro, *L'Esthétique de J. S. Bach*

or C. von Winterfeld, *Gabriel und sein Zeitalter* (1834)

For Period (c) 1740-1830—

Romain Rolland, *Musiciens d'autrefois* (2nd ed. 1925)

or C. F. Pohl, *Joseph Haydn* (Vols. I and II).

For Period (d) 1820-1910—

Berlioz, *Mémoires de Berlioz* (1870)

or Eduard Hanslick, *Aus meinem Leben*.

The University Chamber Concerts

(usually eight)

Not less than four concerts are held during the autumn and spring terms. Dates, artists and programmes are announced on printed leaflets at the beginning of the autumn term.

The Orchestral Concerts

(usually eight)

Not less than six concerts are held during the autumn and spring terms. Full particulars are similarly published at the beginning of the autumn term.

Matriculated students of all Faculties are admitted to both the above series of concerts free of charge. All degree students in the Faculty of Music are required to attend these concerts which form part of their curriculum.

Concerts by Students attending Class 26

The dates will be announced later.

Music Library and Museum

Miss J. M. ALLAN, M.A., F.L.A., Librarian

This library of music and books on music owes its existence to bequests and donations, and to General Reid. It includes the music libraries of the late Professor Sir Donald Tovey and the late Professor Niecks. Professor John Thomson, Theophile Bucher, and the Scottish Musical Society may also be mentioned as important benefactors. It is open as a lending and reference library from 9.30 to 5 (Sat. 9.30-12) during the terms. Hours of opening during vacations are advertised on the door.

Music Studios, 46 George Square

In addition to lecture rooms and a museum of instruments, these premises contain eight practice studios available on a booking rota to all University students requiring such facilities for the serious study of music, and a Gramophone Studio and library of records open to students in the Faculty of Music. The studios are open daily during terms, 9 a.m. to 6 p.m. (Saturdays 9 a.m. to 12) except as otherwise advised by notice on the premises.

The Tovey Memorial Rooms

These rooms at 18 Buccleuch Place, which were given by Dr. Sophie Weisse in memory of Professor Sir Donald Tovey, comprise reading-rooms, a library, and a music studio, and are open to senior music students during the terms. Their management is in the hands of the Professor of Music.

Faculty of Music

Timetable of Degree Examinations (1960)

Qualifying Examination

	<i>June</i>	<i>Sept.</i>	
Paper I—Harmony	M. 6	26	9-12
Paper II—General Knowledge of Music	M. 6	26	2-4
Ear Tests and Practical Examination	T. 7	27	10

First Examination for B.Mus.

	<i>March</i>	<i>Sept.</i>	
Acoustics, and Physiology of the Vocal Organs	M. 14		10-1
	Th.	29	10-1
	<i>June</i>		
Harmony	M. 6	26	9-12
History of Music	M. 6	26	2-5
Form	Tu. 7	27	9-12
Counterpoint	Tu. 7	27	2-5
Performing, Playing at Sight, and Keyboard Harmony	Tu. 14		11
	F.	30	11

Second Examinations for B.Mus.¹

	<i>June</i>	<i>Sept.</i>	
Harmony	M. 6	26	9-12
History of Music	M. 6	26	2-5
Fugue	Tu. 7	27	2-5
Form	W. 8	28	10-1
Counterpoint	W. 8	28	3-5
Instrumentation	Th. 9	29	10-1
Critical Knowledge of Scores	Th. 9	29	2-4
Playing at Sight from Scores	Tu. 14		10
	F.	30	10

Final Honours Examination for B.Mus.

For Honours in Composition

	<i>June</i>	
Counterpoint	M. 6	9-12
Critical Analysis	M. 6	2-5
Fugue	Tu. 7	2-5
Harmony	W. 8	10-1
Canon	W. 8	3-4.30
Orchestration	Th. 9	10-1

For Honours in History of Music

General Paper I	M. 6	9-12
History of Instruments and Notation	M. 6	2-5
Foreign Language	T. 7	2-5
Special Period	W. 8	10-1
General Paper II	Th. 9	10-1
Music in England and Scotland	F. 10	10-1

¹ Exercises must be submitted to the Professor of Music on or before the following dates:—Friday, 27th May 1960; Friday, 16th Sept. 1960.

Timetable of Examinations

Timetable of Degree Examinations (1960)—*continued*

Examination for D.Mus.

<i>Composers</i>				<i>Sept.</i> 1959	<i>Sept.</i> 1960	
History of Music	.	.	Tu.	29	27	9-12
Fugue	.	.	Tu.	29	27	2-5
Counterpoint	.	.	W.	30	28	9-12
Orchestration	.	.	W.	30	28	2-5

Executants and Historians

History of Music	.	.	Tu.	29	27	9-12
Special Subject	.	.	W.	30	28	9-12

<i>Interviews and Executants' Practical</i>				<i>Oct.</i>	<i>Oct.</i>	
<i>Examination</i>	.	.	S.	3	1	A.M. ¹

¹ Candidates will be notified individually of the time at which they should attend. For Executants wishing to take the first part of the examination in the summer the date of examination in 1960 will be 15th June.

Faculty of Music

FELLOWSHIPS, SCHOLARSHIPS, ENDOWMENTS, PRIZES, AND BURSARIES

General Conditions of Candidature, Tenure, and Payment

Both men and women students are eligible for all the undermentioned awards unless there is a definite statement to the contrary.

No prize may be awarded more than once to the same person except by the special recommendation of the Faculty.

Except where special conditions of entry are given under the individual awards below, entry for fellowships, scholarships, bursaries and prizes must be made at the Matriculation Office by 1st May.

Except where otherwise provided by deed of foundation or by resolution of the Senatus, fellowships and scholarships are tenable only by persons who devote their time to post-graduate advanced study or research.

Holders of bursaries in the Faculty of Music must (unless further special conditions are attached to their bursaries) each year attend and perform the work of a full curriculum of studies in the Faculty.

The holders of all fellowships and scholarships must submit to the Dean, in October and May, evidence that they have prosecuted post-graduate advanced study or research or otherwise fulfilled the conditions of tenure of their awards and have made satisfactory progress.

Payments of fellowships, scholarships, bursaries and prizes (except those in the hands of agents outside the University) are made by the University Accountant, as follows:—First instalments from 15th October¹; second instalments from 19th May for fellowships and scholarships, and for bursaries after completion of the class attendance as certified by the Dean.² Applicants for payments must present certificates signed by or for the Dean attesting their regular attendance at the proper classes or otherwise that they have fulfilled the necessary conditions. Those who do not apply within three months to the University Accountant for the instalments due to them will be regarded as having resigned, but a formal intimation of resignation should be tendered to the Dean and to the University Accountant.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, AND PRIZES

I

Entrance Scholarships and Bursaries

(a) Entrance Scholarships in the Faculty of Music.

Mackey (John Robert) Scholarship.—This will be offered for award at the value of £150 per annum as an Entrance Scholarship in the Faculty of Music, tenable for three years. The award will be made on the basis of an examination to be held early in January any year in which the scholarship is open for award.

Open for award in 1960. Entries (on forms to be obtained from the Secretary, the Reid School of Music, Park Place, Edinburgh 8) must be received by the Professor of Music before 1st December 1959.

¹ On special cause shown and with the express approval of the Dean, payment of fellowships and scholarships may be made in one instalment.

² Payments may require to be made under deduction of Income Tax if not exempted under Section 458 of the Income Tax Act 1952:—"Income arising from a scholarship held by a person receiving full-time instruction at a university, college, school or other educational establishment, shall be exempt from income tax and no account shall be taken of any such income in computing the amount of income for income tax purposes."

Fellowships, Scholarships, and Bursaries

The examination will comprise:—(1) performance upon the pianoforte, to which special importance will be attached in the assessment of competing candidates; (2) a written examination of two papers, viz. (a) Harmony (three hours), (b) General Knowledge of Music (two hours); (3) written ear-tests and practical tests in playing at sight, and keyboard harmony. The written examination and tests will be of the same scope and standard as those of the Qualifying Examination (see Regulations for B.Mus. Section VI).

Candidates must before the date of the examination furnish evidence of their qualifications to receive the Attestation Certificate of the Scottish Universities Entrance Board. The successful candidate will be required within one week of receiving notification of the award to sign an undertaking that he will take up the Scholarship and enter upon the course for degree of B.Mus. in the October immediately following. The successful candidate will be granted exemption from the Qualifying Examination. Other candidates may qualify for recommendation by the examiners that they be granted such exemption.

Watson (Mrs Guthrie) Scholarship; Younger (William Edward) Scholarship Faculty Fund Scholarship.—These scholarships shall each be open for award triennially in rotation at a value of not less than £40 per annum, tenable for three years (subject to the satisfactory progress of the scholar). The award will normally be made on the basis of the Qualifying Examination held in June. Candidates may compete for these scholarships as Entrance Scholarships (*i.e.* before commencing upon any studies in the Faculty of Music) or at the conclusion of the first year (Preliminary Course) of the curriculum. Candidates so desiring may also submit original compositions. Application must be made to the Dean in writing before 1st May.

1958. No Award.

(b) Other Entrance Bursaries awarded by the University.

Ardvorlich	McDiarmid
Beattie (John)	Macdonald (William)
Browne	Mackenzie (Stornoway)
Bruce of Grangehill	Maclaurin
Campbell (Robert Mackenzie)	Mackinnon
Chrystie	Mann
Fairbairn (James)	Marshall
Grant	Maule
Jamieson	Penman
Jardine of Thorlieshope	Sibbald

(c) Entrance Bursaries awarded by Outside Bodies.

Abercromby	Lewis
Borderers (Edinburgh) Association (c)	Maclean (Alexander)
Caithness (Edinburgh) Association	Milligan-Paulin
Clan Mackay Society (a) and (b)	Miners' Welfare National
Cowan House, Residential Scholarships	Scholarships and Exhibitions
Highlands and Islands Educational Trust (a), (b), (c), (d)	Nairn
Inverness-shire (London) Association	Newland (John)
Lanarkshire (Upper Ward of)	Rackstraw (Marjorie)
Association (a) and (b)	Robertson (Archibald)

II

**Scholarships and Prizes included in the Edinburgh University
(Fellowships, Scholarships and Bursaries) Scheme, 1953**

Bucher Scholarships.—Two scholarships to the value of not less than £200 per annum; one to be open for award each year, to persons of sixteen to twenty-five years of age who were born in Scotland, who show a natural talent for music and wish to make it their profession, and who are or have been students in Music in the University. The holder must prosecute his musical studies in such places in France, Germany and Italy as the Senatus, having regard to any recommendation made by the Faculty of Music, may determine.

Application, enclosing a birth certificate and a statement of the applicant's proposals for study in one or more of the countries named, must be made to the Dean in writing before 1st May.

Recommendation for the award will be based upon the record of work in classes and examinations. Applicants who have already graduated may be required to attend for special examination in May or June. Applicants so desiring may also be examined in performance or original composition.

1958, Susan I. B. Landale, B.Mus. 1959, R. G. P. Brydon, B.Mus.

Fraser (Andrew A.) Scholarship.—One scholarship, of not less than £80 p.a., tenable for one year with a possible extension for a second year on the recommendation of the Faculty of Music. Open for award to students in Music and Bachelors of Music of this University of twenty to twenty-five years of age. The holder shall prosecute his musical studies furth of Scotland.

Application, accompanied by a statement of the applicant's proposals for further study, must be made to the Dean in writing before 1st May. Recommendation for the award will be based upon the record of work in classes and examinations. Applicants who have already graduated may be required to attend for special examination in May or June. Applicants so desiring may also be examined in performance or original composition.

1959, Christine M. E. Gough, B.Mus.

Gray (Simon) Prize.—See Faculty of Arts Programme.

Watson (Mrs Guthrie) Scholarship; Younger (William Edward) Scholarship; Faculty Fund Scholarship—See under "Entrance Scholarships," Faculty of Music.

III

Other Fellowships, Scholarships, Bursaries, and Prizes

Hollins Scholarship.—Tenable for two years (with a possible extension for one further year). Open to matriculated students in the Faculty of Music, or graduates in Music of not more than five years' standing. Preference will be given to an organist preparing for a university degree, or for the diplomas of Associateship and Fellowship of the Royal College of Organists.

1958, John G. Fletcher, B.Mus.

Niecks Prize.—£5; awarded annually for History of Music. Entry must be made at the Dean's Office before 1st May.

1958, Ann Prince.

Fellowships, Scholarships, and Bursaries

Tovey Memorial Prize.—£20 awarded annually on the basis of an examination in spring to the undergraduate in the Faculty of Music who shows the greatest promise in composition or in instrumental performance. No candidate may hold the prize more than once. Entry must be made at the Dean's Office before 15th January.

1959, Pamela A. Batchelor.

The following fellowships, scholarships, bursaries and prizes are tenable by students in the Faculty of Music. Full details are given in the programme of the Faculties indicated.

Angus (Edinburgh) Club Scholarships (Arts—Strathmore-Cobb)
Bartle Frere Memorial Fund (Arts)
British Council Travel Grants (Arts)
Brown (Richard) Scholarship (Arts)
Carmichael (Robert) Scholarship (Arts)
Carnegie Research Fellowships, Scholarships and Grants in Aid (Arts)
Cecil Peace Prize (Arts)
Harkness Fellowships (Arts)
Cowan House Scholarships (Entrance Bursaries)
Dickson (William) Travelling Fund (Arts)
Dominion Students' Hall Trust (Arts)
Fulbright Travel Grants (Arts)
Grierson Verse Prize (Arts)
Highlands and Islands Education Trust Undergraduate Bursaries (Arts)
Leverhulme Research Fellowships and Grants in Aid of Research (Arts)
Moray (Earl of) Endowment for the Promotion of Original Research (Arts)
Murchison of Taradale Memorial Trust (Arts)
Post-graduate Studentships, Research and Conference Grants (Arts)
Shaw Macfie Lang Fellowship (Arts)
Sloan Prize (Arts)
Spence (Magnus) Memorial Prize (Arts)
Stevenson Exchange Scholarships (Arts)
Strathmore-Cobb Scholarships (Arts)
Wardlaw (D. R.) Memorial Bequest (Arts)
Webster and Davidson Mortification for the Blind (Arts)

**PROGRAMME OF
SPECIAL STUDY AND RESEARCH**

SPECIAL STUDY AND RESEARCH

General

The University of Edinburgh offers facilities for post-graduate study and research in any Faculty to its own graduates, to graduates of other universities, and to other competent persons. Inquiries should be addressed to the Dean of the appropriate Faculty as long as possible before the beginning of the session in which the person desiring information proposes to begin his research; overseas students should inquire before they leave their own countries.

Students from other universities are reminded that they must make their own arrangements for accommodation in Edinburgh. The cost of board and lodgings in the city (excluding lunch except at the week-end) is from 3 to 4½ guineas per week. Students may obtain information about lodgings from the Superintendent of Student Accommodation and Welfare at the Pollock Institute, 46 Pleasance, Edinburgh 8.

In the following pages will be found the regulations for the admission of research students and research fellows, for the degrees of Doctor of Science (D.Sc.), Doctor of Letters (D.Litt.), Doctor of Philosophy (Ph.D.) and Master of Science (M.Sc.).

For other degrees and diplomas for which a primary degree is a normal pre-requisite and for some of which graduates from other universities and other competent persons may become candidates, see as follows :—

Faculty of Arts Programme—the degrees of Bachelor of Education (B.Ed.), Master of Architecture (M.Arch.), and the diplomas in Social Study, Applied Linguistics, Clinical Psychology, English Studies, General Linguistics, Geography, Islamic Studies, Palæography and Manuscript Studies, Phonetics and Social Anthropology.

Faculty of Divinity Programme—the degree of Bachelor of Divinity (B.D.);

Faculty of Law Programme—the degrees of Bachelor of Laws (LL.B.) and Doctor of Laws (LL.D.), and the diploma in Administrative Law and Practice;

Faculty of Medicine Programme—the degrees of Doctor of Medicine (M.D.), Doctor of Veterinary Medicine and Surgery (D.V.M. & S.), Master of Surgery (Ch.M.), and Master of Dental Surgery (M.D.S.), and the diplomas in Radiodiagnosis, Radiotherapy, Psychiatry, Public Health, Tropical Medicine and Hygiene, Tropical Veterinary Medicine, and Veterinary State Medicine;

Faculty of Music Programme—the degree of Doctor of Music (D.Mus.);

Faculty of Science Programme—the diplomas in Radio and Electronics, Rural Science, Forestry, Animal Genetics, Applied Dynamics and Biology.

The normal fees are:—Matriculation £2, 12s. 6d.; registration as a research worker £3; annual fee in Arts, Divinity, Law and Music £35; Architecture and Science £55; Medicine £60. Single-class fees are £5, £8 and £10 for classes of one, two or three terms respectively, and £5 for a two- or three-term class which meets on fewer than thirty occasions. The fee for a practical class taken together with a theoretical class in the same subject is £7, 10s., £12 and £15 for a class of one, two or three terms respectively. For fees for submission of thesis or the degrees of D.Litt., D.Sc., Ph.D., and M.Sc., see pp. 692, 694, 695, 697, 701. For examination for other post-graduate degrees, for registration at graduation as a member of the General Council, see the various Faculty Programmes.

Persons who have not been admitted as research workers and are not matriculated students may work in a laboratory on the payment of £2, 2s. in addition to a fee proportionate to the use made of the Laboratory.

Special Study and Research

Research Students and Research Fellows¹

I. It is in the power of the Senatus Academicus, with the approval of the University Court, to make regulations under which graduates of Scottish Universities, or of other universities recognised by the University Court for the purposes hereof, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It is the duty of the Senatus Academicus:—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) to prepare a list of all persons so admitted (hereinafter referred to as research students); (3) to make regulations for the supervision of their work; (4) to satisfy themselves from time to time that the research students are carrying on their work in the University in a satisfactory manner; (5) to suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity and general qualifications.

IV. An application for admission is in the first instance referred by the Senatus to the appropriate Faculty, or to a committee appointed by the Senatus; one member of the committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further:—(a) That his proposed line of study or research is a fit and proper one; (b) that he possesses a good general education; (c) that he is of good character; (d) that he proposes to prosecute his studies or research during a period to be approved by the Senatus. The Faculty or the committee shall make a report to the Senatus upon each application. It is also their duty, subject to the regulations of the Senatus, to provide for the supervision of the research student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a research student.

V. Every research student is required to matriculate each year, paying the ordinary fee.

VI. Research students have access to and the use of the University laboratories and museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus, may determine.

VII. The title of Research Fellow may be conferred by the Senatus, with the approval of the University Court, on research students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit.

VIII. (1) The Research Fellows shall be appointed as aforesaid, after consideration of the report or reports submitted in terms of Section IV hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the research student's course of study or research, or at any time during its progress, as the Senatus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

(4) Research students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

¹ Scottish Universities Commission (1889) General Ordinance No. 23.

D.Litt. Regulations

IX. Nothing herein contained shall prejudice the right of research students to such fellowships, scholarships, or prizes as may be open to them by Ordinance or deed of foundation.

X. The University Court may . . . provide such sums as it may think fit in aid of the expenses of special study or research.

Registration of Research Workers

(1) The names of all research workers who are not (a) members of staff (including members of staff of teaching hospitals in Edinburgh); or (b) holders of research fellowships or scholarships of the University; or (c) matriculated as research students, shall be placed on a register to be kept in the University Office.

(2) Each worker whose name is on the register shall pay an annual registration fee of £3, except (a) persons doing work on behalf of bodies making grants to the University in respect of such work; (b) distinguished visitors on the recommendation of the head of the department and approved by the Principal.

(3) No person shall be exempt as a member of staff unless his appointment has been approved by the University Court.

(4) In addition to the registration fee a payment will be required, sufficient in each case to meet the outlay incurred for materials and apparatus used by him.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LETTERS (D.Litt.)

I. The degree of Doctor of Letters (D.Litt.) may be conferred in each of the Scottish Universities.

II. A graduate of any of the Scottish universities may offer himself for the degree of D.Litt. in that University after the expiry of seven years from the date of his first graduation therein.

III. Any person who holds such office or offices in each of the said Universities as the Senatus may approve who is not already a graduate of the University in which he holds such post or appointment may offer himself for the degree of Doctor of Letters in the University in which he holds office, after the expiry of four years' continuous tenure of one or more of these offices, posts or appointments, provided always that not less than seven years shall have elapsed from the date of his first graduation in any university.

IV. A candidate for the degree of D.Litt. shall present a published work or works accompanied by a signed declaration that he is the author thereof.

V. The Senatus shall appoint such Professors, Readers or Lecturers in the University as it may think suitable to examine the work or works submitted by a candidate for the degree and the University Court shall, after consultation with the Senatus Academicus, appoint an additional examiner or examiners to act along with them. Such additional examiner or examiners shall be of recognised eminence in the subject of the work or works presented by the candidate. The candidate shall be awarded the degree only if in the opinion of the Senatus, on the recommendation of these examiners, the body of work shall be held to constitute an original and substantial contribution to humane learning.

VI. The fee to be paid for examination for the degree shall be such sum as may from time to time be determined by the University Courts of the four Universities. Candidates for examination or graduation shall not be required to pay a matriculation fee.

VII. The Senatus of each University shall have power to make such additional regulations governing the conferment of the degree as may be approved by the University Court.

VIII. The degree of D.Litt. shall not be conferred upon a person who has not satisfied the conditions hereinbefore set forth, provided always that the

Special Study and Research

Senatus of any of the four Universities may, at its discretion, permit a candidate to offer himself for the degree under the regulations previously in force during a period not exceeding five years from the date on which this Ordinance shall come into operation; and provided always that it shall be in the power of the Senatus of any of the four Universities to confer the degree of D.Litt. *honoris causa* under such regulations as may be made by the Senatus with the approval of the University Court.

Additional Regulations

(1) The Senatus Academicus shall appoint annually a Committee to receive and consider all work submitted for the Degree of Doctor of Letters.

(2) It shall be the duty of the Committee to recommend to the Senatus the names of persons suitable to act as examiners of the works submitted, and, having considered the reports of these examiners, to report to Senatus whether or not they recommend the award of the degree.

(3) All candidates for the Degree shall lodge with the Secretary to the University the works which they wish to be considered.

(4) Two copies of such works shall be lodged and the fees paid before 1st January, if the candidate wishes to graduate at the Summer Graduation, and before 1st June, if the candidate wishes to graduate at the December Graduation.

(5) The fee to be paid for examination for the Degree shall be £20, payable when the work submitted for consideration is lodged.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE

(a) PARTICULAR REGULATIONS

Pure Science

Graduates who have held the degree of B.Sc. with Honours for at least five years may offer themselves for the degree of D.Sc. ; but in special circumstances the Senatus, with the approval of the University Court, may permit a candidate who has held the Ordinary degree of B.Sc. for at least five years to offer himself for the degree of D.Sc.

A candidate for the degree of Doctor of Science shall present a thesis or a published memoir or work to be approved by the Senatus (on the recommendation of the Faculty of Science): provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself. The Faculty shall not recommend any candidate for the degree unless the examiners shall have reported that the thesis is one of distinction as a record of original research.

Agriculture

Graduates who have held the degree of Bachelor of Science in Agriculture with Honours for at least five years may offer themselves for the degree of Doctor of Science; but in special circumstances the Senatus, with the approval of the University Court, may permit a candidate who has held the Ordinary degree of Bachelor of Science in Agriculture for at least five years to offer himself for the degree of Doctor of Science. A candidate for the degree of Doctor of Science shall satisfy the conditions set forth in Section XIII of Ordinance No. CCII, University Court Ordinance No. 68.

Engineering

As under "Agriculture"

Forestry

Graduates who have held the degree of Bachelor of Science in Forestry with Honours for at least five years may offer themselves, for the degree of D.Sc.: but in special circumstances the Senatus, with the approval of the University Court, may permit a candidate who has held the Ordinary degree of Bachelor of Science in Forestry for at least five years to offer himself for the degree of D.Sc. A candidate for the degree of Doctor of Science shall satisfy the conditions set forth in Section XIII of University Court Ordinance No. 91.

Mining

Graduates who have held the degree of Bachelor of Science in Mining with Honours for at least five years may offer themselves for the degree of D.Sc.; and in special circumstances the Senatus, with the approval of the University Court, may permit a candidate who has held the Ordinary degree of Bachelor of Science in Mining and Metallurgy under Ordinance No. 34, or the Ordinary degree under Ordinance No. 56, for in either case at least five years, to offer himself for the degree of D.Sc. A candidate for the degree of Doctor of Science shall satisfy the conditions set forth in Section XIII of Ordinance No. 91.

Technological Science

As under "Agriculture".

(b) GENERAL REGULATIONS

I. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first- or second-class Honours under the conditions prescribed by the Regulations for Degrees in Arts, or under the regulations previously in force therein, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with Honours as aforesaid, may offer themselves for the degree of Doctor of Science (D.Sc.) in the University of Edinburgh under the same conditions as if they held the degree of Bachelor of Science, and after the expiry of the same period (*i.e.* five years) from the date of such graduation as is required in the case of Bachelors of Science of that University.

II. Research students, within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows, may offer themselves for the degree of D.Sc. of the university in which they have prosecuted some special study or research under those regulations, although they have not taken the degree of B.Sc. or the degree of M.A. with Honours as aforesaid in that university; provided—

(1) That they hold the degree of B.Sc. or M.B. of a Scottish or any recognised university, or a degree of any such university, which the Senatus shall hold to be equivalent to the degree of B.Sc. or to the degree of M.A. with first- or second-class Honours; provided that candidates who hold any such degree from a university outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as research students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as research students.

(2) That they have spent not less than two winter sessions or an equivalent period¹ as research students in the university granting the degree, and that

¹ Four terms, not necessarily consecutive, are held to be equivalent to two winter sessions.

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they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

III. All candidates for the degree of Doctor of Science shall satisfy the same conditions with respect to the presentation of a thesis or published memoir or work,¹ and to the passing of examinations as are required in the case of Bachelors of Science of the University of Edinburgh.

X. Notwithstanding and in supplement of the Regulations as to Examinations, Sections XIV and XV, the Senatus Academicus in each university shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the Regulations for Degrees in Science, or under these Regulations, for the Degree of Doctor of Science; and the University Court shall after consultation with the Senatus Academicus, appoint an additional examiner to act along with them. Such additional examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or committee of Senatus.

XI. The degrees of D.Sc. in Mental Science or D.Sc. in Philology shall no longer be conferred by any Scottish University.

XII. The degree of D.Sc. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

The fee to be paid for examination for the degree of D.Sc. is £20, payable when the thesis is lodged, and the fee for each re-examination for the degree of D.Sc. is £6.

Candidates for examination or graduation must pay the matriculation fee of £2, 12s. 6d. Candidates for graduation are required to enter their names and (if not previously registered) to pay the registration fee at least three days before the date of the Graduation Ceremony.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

I. A degree of Doctor of Philosophy (Ph.D.) may be conferred by the University of Edinburgh in any Faculty.

II. The degree shall be open to graduates of this University or of any other approved university, or, in exceptional cases, to persons possessing qualifications approved by the Senatus for this purpose.

III. A candidate for the degree shall be not less than 21 years of age at the time of his admission to study for the degree. He shall previously have pursued a course of study extending over not less than three years at a university or institution of university rank.

IV. It shall be the duty of the Senatus Academicus:—(1) To deal with all applications for admission to prosecute special study or research with a view to the degree; (2) to make regulations for the supervision of the work

¹ Unless the candidate can give adequate reasons to the contrary, the principal part of the thesis shall consist of published papers, but it may be supported by the presentation of manuscript, in a form ready for publication. The D.Sc. degree will be awarded on the research work carried out by the candidate since his last degree in any university. The requirement "that the thesis is one of distinction as a record of original research" implies that small papers should only be submitted as subsidiary to some substantial contribution to the advancement of knowledge. The record submitted shall be that of original *independent* research, so that work carried out under supervision, for instance, under the regulations for the Ph.D. degree, will not be eligible. Two bound copies of the *text* of the thesis (plans and illustrations need not be duplicated) must be lodged and the fees paid by 1st October for the December graduation and by 15th April for the summer graduation. Candidates are required to submit with the thesis, but not bound with it, three copies of a summary setting out in approximately 250-300 words the main argument and conclusions of the thesis. The University shall have the right to publish such summaries of approved theses, or to authorise their publication by any other learned body.

of students under the Ordinance; (3) to satisfy themselves from time to time that the students under the Ordinance are carrying on their work in the University in a satisfactory manner; (4) to suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

V. Every applicant for admission must make to the Senatus Academicus a written application, stating the degree or other qualification which he possesses, the line of special study or research which he wishes to prosecute, and the probable period of its duration, and submitting evidence as to capacity and general qualifications.

VI. The Senatus shall not admit any applicant unless they are satisfied: (a) That his previous training has been suitable; (b) that he is qualified to prosecute the proposed line of special study or research; (c) that the proposed line of special study or research is a fit and proper one; (d) that he proposes to prosecute his special study or research during a period to be approved, which shall be not less than two academical years.

VII. Every such student shall be required to matriculate each year, paying the ordinary fee.

VIII. The University Court may provide such sums as it may think fit in aid of the expenses of special study or research under this Ordinance.

IX. At the close of the period of special study or research the candidate shall present a thesis embodying the result of his work, which shall be submitted to examiners nominated by the appropriate Faculty or any committee entrusted by the Senatus with the supervision of the student's work, and one of such examiners shall be an external examiner appointed by the University Court. The examiners shall, in addition to reading the thesis, conduct such written or oral examination as the Faculty or committee may from time to time prescribe.

X. The report of the examiners shall be made, in the first instance, to the appropriate Faculty or committee, as the case may be, who shall report to the Senatus whether the candidate is, or is not, worthy of the degree.

XI. The fee payable on submission of the thesis for the degree shall be £15.

XII. The degree shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

Additional Regulations¹ applying to all students whose prescribed period of study started on or after 1st October 1957.

(Regulations applying to students whose prescribed period of study started on or after 1st October 1955 and before 1st October 1957 differed from the current regulations only in the matter of fees. Regulations applying to students whose prescribed period of study started in session 1954-55 or earlier will be found in previous editions of the CALENDAR.)

Note for the especial attention of applicants from overseas

Under these Regulations although the period of actual residence for study need not be more than six terms for a full-time student (Regulation 11) a student is not allowed to submit his thesis until the expiry of two calendar years (three in the case of part-time students) from the date on which his period of study commenced (Regulations 5a and 14a) and must be prepared thereafter to present himself for further examination (Regulation 16) when called on by his examiners.

Applicants from overseas should therefore be prepared either (a) to stay in this country until their examination has been completed, which may be two or three months after the submission of their thesis, for instance June or July 1960 for a full-time student whose period commenced in April 1958, or (b)

¹ Made by the Senatus under Section IV (1) and (2) of the above Ordinance.

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if they choose to return home after completing the minimum period of residence for study, to return at a later date to this country for their further examination under Regulation No. 16.

Admission

1. Application for admission as a Ph.D. student shall be made on the official form and addressed to the Secretary to the University. Applications will be considered in the first instance by the heads of the departments in which the proposed subjects of study lie (in Theology, by the Post-graduate Committee in Theology) who will make recommendations to the Ph.D. Committee of the Senatus regarding the admission and supervision of students.

Note.—The Ph.D. Committee meets in the first or second week of each term and thereafter monthly during term. Applications should reach the University not less than one month before the meeting of the Committee at which they are to be considered.

Intending applicants may, before sending in a formal application, obtain advice from the Secretary to the Ph.D. Committee, Old College, South Bridge, Edinburgh 8.

2. The subject proposed for special study or research should be defined as precisely as possible. A subject will not be approved unless it is one for which the University can provide the requisite facilities and expert supervision.

3. (a) An applicant should furnish with his application satisfactory evidence that he is fit to undertake advanced study and research and that he has a working knowledge of the languages required for such study. If he does not furnish such evidence, he shall before admission undergo such tests as may be imposed by the University department or departments concerned with his proposed work.

(b) If it is considered that an applicant is not qualified to undertake the particular study or research proposed, he will not be admitted.

(c) If it is considered that an applicant is qualified to undertake the particular study or research proposed but that his knowledge or his linguistic attainments are not sufficient to provide a proper basis for more extended work in the same general field of studies, he may be admitted but shall be required to undertake such further study of the subjects in which he is deficient as his supervisor may deem necessary, and, if after being tested by his supervisor he is found not to have made satisfactory progress in these subjects, his minimum period of study for the degree may at the discretion of the Senatus, on report from the Ph.D. Committee, be extended.

Note.—The linguistic qualification normally considered necessary for advanced study and research is, in addition to a good knowledge of English, a reading knowledge of at least two modern languages, relevant to the candidate's field of studies. In suitable cases knowledge of ancient languages may be accepted in place of modern languages.

Some Departments also attach importance to previous training in appropriate techniques of research.

The Post-graduate Committee in Theology requires that candidates have the B.D. or equivalent degree, showing passes in both Hebrew and Greek. Only in exceptional circumstances, at the discretion of the Board, will any concession as regards this requirement be made.

4. An applicant who is neither a graduate of the University of Edinburgh nor a member of the University staff shall not, save for special reasons, be admitted unless he intends to devote the whole of his time during his period of study to his work for the Ph.D. degree.

Note.—See also Regulation 10.

Period and Conditions of Study

5. (a) The Senatus on recommendation from the Ph.D. Committee shall prescribe for each student on admission a minimum period of study which shall

Additional Ph.D. Regulations

normally be, for a student who is devoting the whole of his time to his work for the degree, two years, and, for one who can devote only part of his time to his work for the degree, three years. The Senatus may at its discretion prescribe a period of two years for a part-time student who is a member of the staff of the University.

(b) The minimum period originally prescribed for any student may be subsequently extended if upon report from his supervisor it appears that more time is required for the satisfactory completion of his work.

Note.—A student may take longer over his work than the minimum period prescribed, but unless leave has been granted to suspend studies under Regulation 7, every thesis must be presented within five years from the date appointed for the commencement of the prescribed period of study. See Regulation 14 (b).

6. The ordinary matriculation fee shall be paid for each academical year from admission to graduation. A further fee of £60 is payable in two instalments of £30 during the first two years of the course. Persons having to use laboratory facilities will be required to pay a further fee of £15 per annum for each of those years in which they avail themselves of these facilities. In the case of a student whose period of study originally prescribed has been extended under Regulation 3 (c) or under Regulation 5 (b), a fee of £30 is payable for each additional year or part of a year, and students for whom a further period of study has been prescribed under Regulation 18 pay a fee of £15 for each additional year or part of a year.

Note.—The matriculation fee is at present £2, 12s. 6d. per annum.

7. The Senatus on recommendation from the Ph.D. Committee may, if good reason is shown, grant a student leave to suspend his studies. A student who has suspended his studies may later be reinstated provided that not more than five years have elapsed from the date of his suspension of studies. No fee shall be payable in respect of any year if studies have been suspended during the whole of that year.

8. Unless leave has been given to suspend studies, a student may not during his prescribed period of study take courses with a view to obtaining any other degree, diploma or professional qualification.

9. (a) A student shall prosecute his study or research for the degree under a supervisor or supervisors of whom at least one shall be a member of the staff of the University of Edinburgh. He shall report in person or, if absent from Edinburgh, in writing to his supervisors at least twice in each term.

(b) Supervisors shall report annually to the Ph.D. Committee on the work of all students under their care.

10. (a) A student who is not a graduate of the University of Edinburgh shall, except in the cases referred to in paragraph (b) of this Regulation, prosecute his study or research for the degree within a department of the University unless leave of absence has been granted under Regulation 11.

(b) A student who is a graduate of an approved University may, in suitable circumstances, be given special permission by the Senatus, on a recommendation to that effect from the Ph.D. Committee, to prosecute his study or research for the degree in such institution in Edinburgh outwith the University as the Senatus may consider appropriate for his subject.

11. (a) A student shall remain in residence during the University terms included in his prescribed period of study unless leave of absence has been granted by the Ph.D. Committee.

(b) The Committee may grant leave of absence, on written application by the student supported by his supervisor, within the following limits:—

(i) A student for whom a period of study of three years has been prescribed and who is a graduate of the University of Edinburgh may be granted leave of absence for the whole or any part of his period of study,

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provided that the Committee is satisfied that adequate supervision can be exercised.

- (ii) Any other student may be granted leave of absence for part of his period of study, provided that the Committee is satisfied that such absence is advisable in the interests of his work and that adequate supervision can be exercised. If the student is a graduate of the University of Edinburgh and a period of study of two years has been prescribed the period of absence shall not, save for exceptional reasons, exceed three terms in all. If the student is not a graduate of the University of Edinburgh and a period of study of two years has been prescribed the period of absence shall not exceed two terms in all and shall not be allowed in the first term or, save in exceptional circumstances, the last term of his period of study. If the work of a student necessitates absence extending beyond these limits his period of study shall be correspondingly extended.

Notes.—(1) An occasional absence of a few days during term may, if approved by the student's supervisor, be allowed without formal application to the Committee, but application for leave of absence must be made in respect of any more extended absence during term.

(2) A student who has been granted leave of absence covering the last term of his period of study should remember that his presence in Edinburgh may be required under Regulation 16 for examination after submission of his thesis.

Examination and Graduation

12. At the conclusion of his study a candidate for the degree of Ph.D. shall give notice on the official form to the Secretary to the University of his intention to submit his work for examination and shall pay the examination fee of £15. He shall then send to the Secretary:—

(a) Two printed or typewritten copies of a thesis composed by himself embodying the results of his work, both of which copies shall, if the thesis is approved, become the property of the University Library. The copyright in the thesis shall remain in the author.

(b) Three copies of a summary stating in approximately 250-500 words the main argument and conclusions of his thesis. The summary shall be submitted to the examiners along with the thesis. The University shall have the right to publish such summaries of approved theses or to authorise their publication by any other learned body.

Notes.—(1) Degrees are conferred by the University in October, December and July. The undernoted dates are intended as an approximate guide, but the University cannot guarantee that the examination of a candidate's work will be completed in time for his graduation at any particular date. A successful candidate, if he is unable to attend the graduation ceremony, should apply in advance for permission to graduate *in absentia*.

For graduation in	Dates	
	Notice and payment of fee	Presentation of thesis
October	Not later than 15th June	If possible, before 15th July and in any case not later than 1st September
December	Not later than 30th September	Not later than 1st November
July	Not later than 10th April	Not later than 15th May

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(2) Theses should be submitted in large quarto form and must be bound (*i.e.* sewn and cased by a bookbinder); looseleaf binding will not be accepted. Summaries should not be bound with the thesis but should be separately type-written on forms which may be obtained from the Secretary.

When a thesis includes diagrams, etc., whose reproduction would be difficult or expensive, a single copy of such portions of the thesis may be accepted, but wherever possible, photographic copies of the originals should accompany the second copy of the thesis.

13. When a student in the course of his work has obtained results which in the opinion of his supervisor call for immediate publication he may make these results the subject of a communication to a learned society or journal before submitting for examination the thesis embodying them, but the fact of such communication and of any publication resulting therefrom must be recorded in the thesis.

14. (a) A candidate for the degree may not submit his thesis before the expiry of his prescribed minimum period of study.

(b) Every thesis shall be submitted within a maximum period of five years from the date appointed for the commencement of the period of study, not counting any time during which studies have been suspended under Regulation 7. The Senatus on recommendation from the Ph.D. Committee may extend this maximum period of five years but only in exceptional cases and for substantial reasons.

Note.—The earliest date at which a candidate may submit his thesis is thus the end of the twenty-fourth or of the thirty-sixth month from the date of commencement of his minimum period of study according as the period was fixed at two or three years. If a longer period of study was originally prescribed or if the period originally prescribed has subsequently been extended, or if studies have been temporarily suspended under Regulation 7, the earliest date for submission of the thesis will be correspondingly later.

15. A thesis to be approved for the degree shall be an original work displaying adequate acquaintance with the field of study combined with the exercise of critical judgment, and containing material worthy of publication as a definite contribution to knowledge. It shall also be satisfactory as regards its literary presentation.

16. After submission of his thesis a candidate shall undergo further examination, written or oral. The Ph.D. Committee may dispense with this examination when the examiners are agreed that such examination is unnecessary.

17. If a thesis is adjudged to be substantially satisfactory in both matter and form and yet to call for modification in some respects, the making of certain defined changes may be required as a condition antecedent to graduation. In such a case the candidate shall be admitted to graduation only upon receipt of a statement, signed by the internal examiner or examiners, that this requirement has been fulfilled.

18. A thesis adjudged unworthy of the degree may not be resubmitted unless the Ph.D. Committee invites the candidate to resubmit it in a revised form after a further period of study under supervision. An examination fee of £10 is payable for any such resubmission.

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REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE¹

I. A degree of Master of Science (M.Sc.) may be conferred by the University of Edinburgh.

II. Every candidate for the degree of Master of Science, before being admitted to a course of special study or research leading to the degree (*a*) must have obtained a degree in Science in the University of Edinburgh or in another University recognised for this purpose by the University Court on the recommendation of the Senatus Academicus, provided that the Senatus Academicus may, in exceptional circumstances, and with the approval of the University Court, admit to a course of special study or research for the degree a candidate who possesses such other scientific qualifications as the Senatus may approve for this purpose; and (*b*) must have satisfied the Senatus Academicus of his fitness to undertake advanced study or research.

III. Every candidate for the degree of Master of Science shall pursue a full-time course of special study or research in the University of Edinburgh for a period being not less than two academical years as the Senatus Academicus may prescribe having regard to the qualifications of the candidate, provided always that this period may be reduced to one of not less than twelve consecutive months in the case of Honours graduates or post-graduate diplomates of the University of Edinburgh, and that graduates of the University of Edinburgh may by special permission of the Senatus Academicus be permitted to prosecute their studies elsewhere; but no candidate shall be permitted to prosecute his study elsewhere unless the Senatus Academicus is first satisfied that adequate facilities are available for the study which he proposes to prosecute.

IV. It shall be the duty of the Senatus Academicus—

- (1) To deal with applications for admission to the course of special study or research for the degree.
- (2) To make regulations for the conduct of the work of students and their examination under this Ordinance.
- (3) To be satisfied that students under this Ordinance are pursuing their studies in a satisfactory manner.
- (4) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

V. Every applicant for admission must make a written application to the Senatus Academicus, stating his qualifications, and the special study or research which he wishes to prosecute.

VI. (1) The Senatus Academicus shall not admit any applicant unless they are satisfied (*a*) that his previous training has been suitable; (*b*) that he is qualified to prosecute the proposed special study or research; (*c*) that the proposed special study or research is a fit and proper one, and that adequate facilities are available for the study which he proposes to prosecute.

(2) The Senatus Academicus may require a candidate to attend classes relevant to his proposed course of special study or research.

VII. Every candidate for the degree shall be required to matriculate each year of his prescribed period of special study or research paying the appropriate fee.

¹ Ordinance of the University Court of the University of Edinburgh No. 9^o.

VIII. (1) On the completion of his special study or research each candidate shall present a dissertation embodying the result of his work which shall be submitted to examiners approved by the Senatus Academicus, one of these examiners being an external examiner appointed by the University Court. The examiners shall, at their discretion, test the candidate orally on the subject-matter of his dissertation and shall, in addition, conduct such written examination as the Senatus may prescribe in the individual case; but the oral examination shall not be waived in the case of a candidate who has prosecuted his study elsewhere than in the University of Edinburgh.

(2) The dissertation shall consist either of a record of research undertaken by the candidate or of a critical survey of knowledge on the selected field of study and in the case of a candidate for whom a period of twelve consecutive months has been prescribed, shall not be presented before the completion of that period. Except by special permission of the Senatus Academicus no dissertation may be presented later than four years after the candidate's admission to a course of special study or research for the degree.

(3) A candidate may not include in his dissertation for the degree of Master of Science any work presented in fulfilment of the requirements for any other degree or professional qualification.

(4) A dissertation based on special study or research conducted elsewhere than in the University of Edinburgh shall be accompanied by a declaration signed by the candidate that the special study or research has been undertaken and the dissertation composed by himself.

IX. The fee payable on submission of the dissertation for the degree shall be £10.

X. The degree shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth and shall not be conferred

ADDITIONAL REGULATIONS

1. Applications for admission as an M.Sc. student must be made on the official form and addressed to the Secretary to the University. Admission will date from 1st October and applications should normally be received by 1st September of the same year.¹ The subject proposed for special study or research should be defined as precisely as possible and every applicant must furnish with his application evidence of his qualifications, of his fitness to undertake the special study or research proposed, and of his knowledge of relevant foreign languages. A graduate of the University of Edinburgh who desires to prosecute his studies elsewhere must submit evidence that adequate facilities are there available for the study which he proposes to prosecute.

2. (i) The Senatus Academicus, on recommendation by the Faculty of Science, shall prescribe for each student on admission a minimum period of study, which shall usually be:—(a) for Honours graduates of the University of Edinburgh, and for Ordinary graduates of the University who have been awarded a post-graduate diploma, twelve months; (b) for graduates of approved Universities who are post-graduate diplomates of the University of Edinburgh, twelve months; (c) for Ordinary graduates of the University of Edinburgh and Honours graduates of approved Universities not qualified under (a) or (b), two academical years; (d) for Ordinary graduates of approved Universities not qualified under (b) and others admitted by special permission of the Senatus Academicus, a period of not less than two academical years to be determined by the Senatus Academicus after examination of the candidates' qualifications.

¹ If the subject of research proposed involves preliminary field work during the summer, applications should be received not later than 30th June in the same year.

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(ii) Students who have been admitted to a course of study for the degree of Doctor of Philosophy (Ph.D.) in the Faculty of Science may be permitted to transfer to a course of study for the degree of Master of Science (M.Sc.) at any time not earlier than the end of the first year of their course of study for the first-named degree. Such candidates shall be required to devote not less than a further period of twelve months' special study or research, as may be prescribed by the Senatus Academicus, in order to complete the requirements for the degree of Master of Science.

(iii) The minimum period originally prescribed for any student may subsequently be extended by the Senatus Academicus, if, upon report through the Faculty of Science by the Head of the Department in which he is working, it appears that more time is required for the satisfactory completion of his work.

3. The ordinary matriculation fee shall be paid for each academical year from admission to graduation. A registration fee of £3 shall be paid for each term from admission until the dissertation is presented, and a further fee of £6 for each term during which experimental work is undertaken in the University of Edinburgh. If laboratory facilities are used in the long vacation, an additional charge of £6 will be made subject to a maximum charge of £18 under this head for any period of twelve consecutive months.

4. A student may not during his prescribed period of special study or research take courses with a view to obtaining any other degree, diploma or professional qualification.

5. Each student shall report to the Dean of the Faculty of Science in writing twice a year, in March and September, on the progress of his special study or research. If the student is working in the University of Edinburgh such report shall be made through the Head of the Department in which he is working.

6. At the conclusion of his prescribed period of special study or research a candidate for the degree of M.Sc. shall give notice on the official form to the Secretary to the University of his intention to submit a dissertation embodying the result of his work for examination and shall pay the examination fee of £10. He shall then send to the Secretary to the University:—(a) Two printed or typewritten copies of his dissertation, both of which copies, will, if the degree is awarded, become the property of the University Library. The copyright in the dissertation will remain in the author. (b) A signed statement that the dissertation is the result of his own work and has been composed by himself. (c) Three copies of a summary stating in approximately 250-500 words the main conclusions of his dissertation. The summary will be submitted to the Examiners along with the dissertation. The University shall have the right to publish such summaries of approved dissertations or to authorise their publication by any learned body.

Notes.—

(1) Degrees are conferred by the University in October, December and July. The appropriate dates are:—

For graduation in	Notice and payment of fee	Presentation of dissertation
October	Not later than 15th June	Not later than 15th July
December	Not later than 30th September	Not later than 15th October
July	Not later than 10th April	Not later than 30th April

Candidates may be required to undergo oral and/or written examination as provided in Regulation VIII (1) and the University cannot guarantee that the examination of a candidate's work will be completed in time for his graduation at any particular date.

(2) When a dissertation includes diagrams, etc., whose reproduction would be difficult or expensive, a single copy of such portion of the dissertation may be accepted but wherever possible photographic copies of the originals should accompany the second copy of the dissertation.

Dissertations should be submitted in large quarto form and must be bound (*i.e.* sewn and cased by a bookbinder); loose-leaf binding will not be accepted. Summaries should not be bound with the dissertation but should be separately typewritten on forms which may be obtained from the Secretary to the University.

(3) When a student in the course of his work has obtained results which he may wish to submit for immediate publication he may make these results the subject of a communication to a scientific journal before submitting for examination the dissertation embodying them but the fact of such communication and of any publication resulting therefrom must be recorded in the dissertation.

7. To be accepted for the degree a dissertation shall be satisfactory as regards its literary presentation.

8. If a dissertation is adjudged to be substantially satisfactory both in matter and in form and yet to call for modification in some respects, the Senatus Academicus, on the recommendation of the examiners, may require, as a condition antecedent to graduation, that certain defined changes be made. In such a case the candidate shall be admitted to graduation only upon receipt of a statement signed by the internal examiner or examiners that this requirement has been fulfilled.

9. A dissertation not accepted for the degree may not be re-submitted unless the Senatus Academicus, on the recommendation of the Faculty of Science invites the candidate to re-submit it in a revised form after a further period of special study or research. In such a case one copy of the original dissertation will be retained by the Faculty. An examination fee of £6 is payable for re-submission, and on re-submission the candidate shall comply with the requirements of Additional Regulation No. 6.

POST-GRADUATE COURSES AND POST-GRADUATE SCHOOL OF THEOLOGY

The Post-Graduate School of Theology (Secretary, Rev. R. A. S. Barbour, New College, The Mound, Edinburgh), provides advanced teaching in the several Departments of Theology, and also advises duly qualified students desiring to undertake research work with a view to the degree of Doctor of Philosophy (Ph.D.) in Theology. Admission to the School is open to:—Graduates in Divinity of a university recognised for the purpose by the University Court; holders of a diploma or exit certificate from a theological college or seminary similarly recognised; and other students who are able to satisfy the Board of Studies of their fitness to undertake advanced study in one or other of the departments.

The Post-graduate Committee in Theology, which is responsible for the conduct of the School, consists of the professors and the lecturers in the relevant subjects within the University, together with such extra-mural teachers of Theology in Edinburgh as may, from time to time, be appointed by the University. The Committee advises the Ph.D. Committee of the *Senatus Academicus* on the admission and supervision of candidates for the degree of Doctor of Philosophy (Ph.D.) in Theology, and on the merits of theses submitted for that degree.

Students, other than Ph.D. candidates, admitted to this School pay the matriculation fee of £2, 12s. 6d. and an annual fee of £30, which entitles them to attend as many courses as they choose during the three terms of the session.

There are courses in Islamic Studies in the Faculty of Arts (see Faculty of Arts Programme).

SYNOPSIS OF COURSES FOR 1959-1960

The numbers 1, 2, etc., after a course indicate the number of meetings per week. Intimation of the days and hours of the courses will be posted at the University and at New College before the beginning of each term.

1.—The Old Testament and Semitic Languages

REV. PROFESSOR PORTEOUS, REV. PROFESSOR BARR and
REV. DR. MONTGOMERY WATT

(a) Studies in the Hebrew text of Job (2: autumn and spring; Rev. Professor Porteous).

(b) Syriac and Gospel of Mark (Peshitta) (2: autumn and spring; Rev. Professor Porteous).

(c) Semantic Problems (1: autumn; Rev. Professor J. Barr).

(d) The Septuagint (1: spring; Rev. Professor J. Barr).

(e) Dead Sea Scrolls (1: spring; Rev. Professor J. Barr).

(f) The Religion of Islam (1: spring; Rev. Dr. Montgomery Watt).

2.—The New Testament and Early Christian Literature

REV. PROFESSOR STEWART, REV. PROFESSOR ALLAN BARR, and REV. R. A. S. BARBOUR.

(a) Studies in the First Epistle of St. John (2: autumn; Rev. Professor Stewart).

(b) Studies in the Book of Revelation (2: spring; Rev. Professor Stewart).

Post-Graduate Courses (Theology)

(c) St. Paul and the Preacher: from Exegesis to Exposition (1: summer; Rev. Professor Stewart).

(d) Exegetical Study of II Corinthians, Chapters 1-7 (2: autumn; Rev. Professor A. Barr).

(e) St. Luke and the Synoptic Tradition (2: spring; Rev. Professor A. Barr).

(f) Judaism in the First Century (2: autumn and spring; Rev. R. A. S. Barbour).

(g) The Pauline Conception of Faith (1: summer; Rev. R. A. S. Barbour).

(h) The Epistle of James (1: summer; Rev. R. A. S. Barbour).

3.—Church History (including Patristics)

REV. PRINCIPAL BURLEIGH, Very Rev. PRINCIPAL
EMERITUS WATT and Rev. A. C. CHEYNE

(a) Patristic Texts (1: autumn and spring; Rev. Principal Burleigh).

(b) Studies in St Augustine (1: autumn and spring; Rev. Principal Burleigh).

(c) Studies in the Mediæval Religious Mind (2: autumn; Very Rev. Principal Emeritus Watt).

(d) The Scottish and other Reformations in their Interactions (2: spring; Very Rev. Principal Emeritus Watt).

(e) Religion and Politics in Britain, 1689-1714 (1: autumn; Rev. A. C. Cheyne).

(f) Representative Scottish Churchmen, 1560-1960 (1: spring; Rev. A. C. Cheyne).

(g) The Church of Scotland from the Reformation to the Present Day (4: summer; Rev. A. C. Cheyne).

4.—Philosophical and Systematic Theology

Very Rev. PRINCIPAL EMERITUS BAILLIE, REV. PROFESSOR TORRANCE, REV.
PROFESSOR TINDAL, REV. PROFESSOR MCINTYRE, REV. PRINCIPAL DUTHIE

(a) Studies in Cardinal Christian Concepts (2: autumn; Very Rev. Principal Emeritus Baillie).

(b) The Problem of Eschatology (2: spring; Very Rev. Principal Emeritus Baillie).

(c) Theology and Scientific Method (1: autumn; Rev. Professor Torrance).

(d) Contemporary Ethical Problems (2: autumn; Rev. Professor Tindal).

(e) Scottish Preaching and Devotion and Cure of Souls (1: spring; Rev. Professor Tindal).

(f) Concept of Revelation (1: spring; Rev. Professor McIntyre).

(g) Studies in Puritan Theology (2: autumn and spring; Rev. Principal Duthie).

5.—Bibliography and Liturgics

Rev. Dr. J. A. LAMB

(a) Bibliography for Post-Graduate Students (1: autumn; Rev. Dr. J. A. Lamb).

(b) The Church Year and Calendar (1: spring; Rev. Dr. J. A. Lamb).

(c) Service-Books of the Christian Church (2: summer; Rev. Dr. J. A. Lamb).

Special Study and Research

EDINBURGH POST-GRADUATE BOARD FOR MEDICINE

The Board consists of representatives of the University, the Royal College of Physicians of Edinburgh and the Royal College of Surgeons of Edinburgh, and acts as an Advisory Council to the University Court. The principal courses arranged are in Medical Sciences, Surgery and Internal Medicine, which are intensive twelve-week courses designed for those requiring a refresher course or for candidates preparing for higher qualifications in these subjects. In addition, a number of shorter specialised courses and refresher courses for general medical practitioners and dental practitioners are held during the year. Further particulars may be obtained from the Director of Post-Graduate Studies, Surgeons' Hall, Edinburgh 8 (phone WAV 3313).

Chairman: PROFESSOR D. M. DUNLOP, B.A., M.D., F.R.C.P.E., F.R.C.P.

Director of Post-Graduate Studies: Professor Emeritus D. L. C. MUIR, O.B.E., M.B., CH.B., F.R.C.S.E.

Assistant Director: J. KIRKLAND, F.R.C.S.E.

FACULTY OF ARTS RESEARCH CENTRE

The Faculty of Arts Research Centre at 27-28 George Square, houses (1) the School of Scottish Studies (see below), (2) the Linguistic Survey of Scotland, and (3) the editorial staffs of *The Dictionary of the Older Scottish Tongue* and *The Scottish National Dictionary*.

The School of Scottish Studies

The research staff of the School is engaged on (a) the recording and study of the folk-culture of Scotland—folk-tale, folk-song and music, custom and belief, and material culture—and (b) the Scottish Place-name Survey. Limited accommodation is available for post-graduate research students pursuing these subjects. In addition to the archives, facilities include a specialist library and a sound-recording studio.

Scottish Studies, a bi-annual journal, is published by the School.

Further information may be obtained from the Director.

Director: B. R. S. MEGAW, B.A., F.S.A., F.M.A.

SOCIAL SCIENCES RESEARCH CENTRE

The Social Sciences Research Centre at 39 George Square is staffed by members of the Departments of Geography (1), Political Economy (1), Psychology (1), Public Health and Social Medicine (1), Organisation of Industry and Commerce (1), Social Anthropology (2), and Social Study (2), who divide their time between Departmental teaching and research work in the Centre. Also attached to the Centre are research staff engaged on projects sponsored by outside bodies; and from time to time one or two post-graduate students.

The Centre is under the supervision of the Committee on Cooperation and Research in the Social Sciences (Convener: Professor N. C. Hunt).

The function of the Centre is the promotion of research, especially research of a collaborative nature, in the Social Sciences.

Further information may be obtained from the Secretary.

SCHOOL OF APPLIED LINGUISTICS

**Research and Training in the Teaching of English as a
Second Language**

The School of Applied Linguistics is a post-graduate centre providing a Diploma course in Applied Linguistics in the Teaching of English as a Second Language.

The primary aim of the School is to give experienced overseas teachers, particularly those who are concerned with the control of English teaching policy, text-book writing, and the training of teachers, an intensive training in disciplines relevant to language teaching and in methods of research in this field.

The courses given in the School cover both fundamental theory in General Linguistics, Phonetics and Educational Psychology and the detailed study of practical problems of language teaching with special reference to English.

The School, which has its own Director and staff, is run in co-operation with the Departments of English Language and General Linguistics, English Literature, Phonetics and Education. The heads of these departments are members of a committee responsible for the School within the Faculty of Arts.

Director: J. C. CATFORD, B.A.

**PROGRAMME OF
ENTRANCE BURSARIES**

ENTRANCE BURSARIES

Conditions of Award and Tenure¹

ENTRANCE BURSARIES are awarded either (A) by the University, or (B) by outside patrons.

(A) Bursaries Awarded by the University

The bursaries, open or preferential, awarded by the University are indicated by an asterisk (*) in the list on pp. 723-37. Their award is subject to the following conditions :—

(1) All candidates, whether for open or for preferential bursaries, must enter their names at the Matriculation Office between 28th March and 5th April,² and must present themselves for the Entrance Bursary examination (see pp. 713-20).³ Candidates for bursaries pay no fee. Where a preference in favour of certain persons is expressed in the conditions of award of any bursary in the list, candidates should give proof at the time of entry that they are qualified to claim such preference: otherwise there is no need to state that they are competitors for any particular bursary. For the following bursaries, indicated in the list by a dagger (†), separate entries, in addition to the entry for the Entrance Bursary examination, must be made with agents and others outside the University as indicated:—Ardvorlich; Beattie; Chrystie; Dundas; Johnstone (Archibald); Johnstone (Robert) (a); Penman; Trotter and Penman.

(2) Only those candidates will be considered whose names appear on the published list of those whose performance in the examination is deemed by the Senatus to merit the award of a bursary.⁴ No candidate shall obtain a bursary who has not passed the Preliminary examination or its equivalent. The Senatus has the power to award bursaries in respect of exceptional distinction in any one branch of study.

(3) If, in the case of any preferential bursary, no candidate who is entitled to a preference is placed in the published list, or if any such preferential candidate, being placed in the list, chooses to accept another bursary rather than the preferential bursary to which he is entitled, the preferential bursary will, *pro hac vice*, be available for award as an open bursary to any other candidate placed in the published list.

(4) The bursaries shall be tenable in the Faculties to which they are attached, provided always that the Senatus may allow certain bursaries attached to the Faculty of Arts to be held by a student proceeding to graduation in Pure Science. The bursaries shall be awarded to students entering the respective Faculties for the first time, provided that no student who has throughout a winter or summer session attended any class qualifying for graduation in the Faculty of Arts, the Faculty of Medicine, or the Faculty of Science in another university shall be eligible for the award of any of the said bursaries tenable in the same Faculty in the University of Edinburgh. The bursaries are tenable only for the period necessary to complete a curriculum for a first degree in the Faculty in which they were awarded and may not be held thereafter by students proceeding to a second degree in the same Faculty or in another Faculty.

(5) The holders must attend annually at least two graduation classes, must duly perform the work of these classes, and must present themselves for the

¹ For additional entrance bursaries in the Faculties of Divinity and Music see the respective Faculty Programmes.

² The Senatus may relax this regulation when *very special cause* has been shown.

³ The University will consider applications to sit the Entrance Bursary examination at local centres in Orkney, Shetland, the Hebrides, and Inverness.

⁴ This list, along with the names of the schools from which successful candidates come, will be published in the press and in the CALENDAR (see p. 722).

Entrance Bursaries

degree examinations. The bursaries are tenable for such number of years as is necessary for graduation; but their period of tenure may be extended for graduation with Honours.

(6) Each bursar, when he applies for payment to the University Accountant (for open bursaries) or to the agent (for preferential bursaries), must produce a certificate signed by or for the Dean attesting the bursar's regular attendance on the proper classes or otherwise showing that he has fulfilled the conditions of the foundation. Such certificates will be given to bursars by their Directors of Studies on or after 13th October on the production of their class cards, and after the completion of the bursars' courses in each academic year on the production of certificates from the Professors to the effect that the students in question have regularly attended their classes and made progress in their studies. Payments for bursaries for which outside agents are not specified are made by the University Accountant, the Old College, South Bridge, Edinburgh, as follows :—For the Martinmas instalments, on and after 15th October; for the Whitsunday instalments, on and after 19th May. Bursars must apply for the instalments due to them within three months after they become payable; otherwise the holders will be regarded as having resigned. Bursars who wish to resign should, however, notify the Dean of their Faculty and the University Accountant.

(B) Bursaries Awarded by Outside Patrons

Candidates for bursaries awarded by outside patrons must enter their names with the appropriate agents and observe the conditions specified for each bursary; for some of these bursaries the patrons use the University's Entrance Bursary examination (see pp. 713-20) as a method of discriminating between the candidates, and candidates for such awards must enter their names at the Matriculation Office between 28th March and 5th April, as well as with the appropriate agents.

Entrance Bursaries and Scholarships open in 1960

The following Entrance Bursaries awarded by the University may be open in 1960:—

Anderson	McDiarmid
Archibald or McGuffie (<i>b</i>)	Mackenzie
*Ardvorlich	Mackinnon
*Beattie	McLauchlan
Blair	Mann
Browne	Maule
Bruce	Patrick
Bruce of Grangehill	Pringle and Wardrop
Campbell (Robert Mackenzie)	Sibbald
Crichton	Sibbald (Medical)
Davidson	Thomson (<i>a</i>); (<i>c</i>)
Donaldson of Auchairne	*Trotter and Penman
Grant	Vans Dunlop
Grierson (<i>a</i>); (<i>b</i>); (<i>c</i>)	Weir, Jenkins, Hepburn and
Jardine of Thorlieshope	Lightbody
*Johnstone (Archibald)	Welsh (John) (<i>a</i>); (<i>b</i>)

Regulations for the Entrance Bursary Examination

1. The examination consists of:

- (i) Paper 1. English Essay (2 hours: 75 marks).
- (ii) Paper 2. General Questions (2 hours: 75 marks).
- (iii) *Six* papers (2½ hours each: 100 marks each), chosen from papers 3 to 46 (see Regulation 3), the choice being governed by Regulation 4.

2. Candidates are required to state their choice of papers at the time of entry for the examination.

3. The following papers are set:

Paper

- 3. English Language and Literature: Reading and Interest.
- 4. English Language and Literature: Literature and Language I.
- 5. English Language and Literature: Literature and Language II.
- 6. Greek: Unseen Translation.
- 7. Greek: Prose Composition.
- 8. Greek and Latin: Language, Literature, History and Antiquities.
- 9. Latin: Unseen Translation.
- 10. Latin: Prose Composition.
- 11. History: General European History, A.D. 400-1945.
- 12. History: British History, 55 B.C.-A.D. 1945.
- 13. History: *One of* (a) Scottish History, 1488-1707;
(b) Scottish History, 1707-1945;
(c) History of the U.S.A., 1776-1945;
(d) The British Empire, 1713-1914;
(e) Britain and Europe, 1789-1914;
(f) The Crusades, 1095-1292.
- 14. Geography: General Geography of Great Britain and the Commonwealth.
- 15. Geography: Physical Geography.
- 16. Geography: Practical and Applied Geography.
- 17. Geography: Geography of Scotland and Western Europe.
- 18. Mathematics: Geometry and Mensuration.
- 19. Mathematics: Algebra, Calculus and Analytical Trigonometry.
- 20. Mathematics: Analysis and Geometry.
- 21. Mathematics: General Mathematics.
- 22. Physics: Mechanics, Properties of Matter and Heat.
- 23. Physics: Electricity and Magnetism, Light and Sound.
- 24. Chemistry: General.
- 25. Chemistry: Special.
- 26. Botany.
- 27. Zoology.
- 28. Geology: Physical and Structural Geology.
- 29. Geology: Historical Geology, Mineralogy and Petrology.
- 30. Celtic: Unseen Translation.
- 31. Celtic: Prose Composition.
- 32. French: Unseen Translation.
- 33. French: Prose Composition and Essay (in French).
- 34. German: Unseen Translation.
- 35. German: Prose Composition and Essay (in German).
- 36. Italian: Unseen Translation.
- 37. Italian: Prose Composition and Essay (in Italian).
- 38. Russian: Unseen Translation.
- 39. Russian: Prose Composition and Essay (in Russian).
- 40. Spanish: Unseen Translation.

Entrance Bursaries

41. Spanish: Prose Composition and Essay (in Spanish).
42. Modern Languages: Literature, General History and Civilisation.
43. Music: Harmony.
44. Music: History of Music and Musical Form.
45. Art: History of Art from c. A.D. 1300.
46. Art: Practical examination in drawing.

4. Choice of papers:

The following groups are permitted:

Group A: General Subjects

- (i) *Both* papers in each of *two* subjects chosen from different sections of the following list.

Section (a) English (Papers 3 and 4).

„ (b) Greek (Papers 6 and 7).

Latin (Papers 9 and 10).

„ (c) History (Papers 11 and 12).

Geography (Papers 14 and 15).

„ (d) Mathematics (Papers 18 and 19).

„ (e) Physics (Papers 22 and 23).

Chemistry (Papers 24 and 25).

Geology (Papers 28 and 29).

„ (f) Celtic (Papers 30 and 31).

French (Papers 32 and 33).

German (Papers 34 and 35).

Italian (Papers 36 and 37).

Russian (Papers 38 and 39).

Spanish (Papers 40 and 41).

„ (g) Music (Papers 43 and 44).

Art (Papers 45 and 46).

- (ii) *Either*

Both papers in a third subject from a third section of the list;

or Paper 26 (Botany) and paper 27 (Zoology) provided that no subject from section (e) be offered in (i);

or *One* paper in a third and *one* in a fourth subject, provided that all four subjects in (i) and (ii) be from different sections. The note that follows shows which papers may be offered if this alternative be chosen.

N.B.—Candidates who offer only a single paper in any subject in this Group must take:—

in History, Physics and Music, *either* of the papers listed above;

in Geography, Paper 17;

in Mathematics, Paper 21;

in all other subjects, the *first* of the two papers listed.

Paper 26 (Botany) or Paper 27 (Zoology) may be offered as the paper in the fourth subject provided that no subject from section (e) be also offered.

Group B: English

- (i) English (Papers 3, 4, 5).

- (ii) *Either* History (Papers 11 and 12); with

translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).

or History (Paper 11 or Paper 12) or Music (Paper 43 or Paper 44); with

translation from *two* languages, one being ancient (*two* of Papers 6, 9, 30, 32, 34, 36, 38, 40, provided that 6 or 9 be included).

Entrance Bursaries

- or* Translation from and composition in a language (either Papers 6 and 7, or 9 and 10, or 30 and 31, or 32 and 33, or 34 and 35, or 36 and 37, or 38 and 39, or 40 and 41); with translation from *another* language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
- or* History (Paper 11 or Paper 12); with translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40); and with *one* of: Geography (Paper 17).
Physics (Paper 22 or Paper 23).
Chemistry (Paper 24).
Botany (Paper 26).
Zoology (Paper 27).
Geology (Paper 28).
Music (Paper 43 or Paper 44).

Group C : Classics

- (i) Greek and Latin (Papers 6, 7, 8, 9, 10).
(ii) *One* of: English (Paper 3).
History (Paper 11 or Paper 12).
Geography (Paper 17).
translation from a modern language (*one* of Papers 30, 32, 34, 36, 38, 40).
Music (Paper 43 or Paper 44).
Art (Paper 45).

Group D : History

- (i) History (Papers 11, 12, 13).
(ii) *Either* English (Papers 3 and 4).
or Geography (Papers 14 and 15)
or translation from *two* languages (*two* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
or *two* of: English (Paper 3).
Geography (Paper 17).
translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
(iii) *Either one* of Papers 21, 22, 23, 24, 26, 27, 28, 43, 44, 45
(provided that the subject concerned be not offered in (ii))
or *one* of Papers 3, 6, 9, 17, 30, 32, 34, 36, 38, 40.
(provided that another paper in the same subject be offered in (ii))
or *one* of Papers 7, 10, 31, 33, 35, 37, 39, 41.

Group E : Geography

- (i) Geography (Papers 14, 15, 16).
(ii) *Either* English (Papers 3 and 4)
or History (Papers 11 and 12)
or Mathematics (Papers 18 and 19)
or translation from *two* languages (*two* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
or *two* of: English (Paper 3)
History (Paper 11 or Paper 12)
Mathematics (Paper 21)
Botany or Zoology (Paper 26 or Paper 27)
Geology (Paper 28)
translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).

Entrance Bursaries

- (iii) *Either* one of Papers 22, 23, 24, 43, 44, 45.
(provided that the subject concerned be not offered in (ii))
 - or* one of Papers 3, 6, 9, 11, 12, 21, 26, 27, 28, 30, 32, 34, 36, 38, 40.(provided that another paper in the same subject be offered in (ii))
 - or* one of Papers 7, 10, 31, 33, 35, 37, 39, 41.

Group F: Mathematics

- (i) Mathematics (Papers 18, 19, 20).
- (ii) *Either* Physics (Papers 22 and 23)
 - or* Physics (Paper 22 or Paper 23); with Chemistry (Paper 24).
- (iii) *One* of: English (Paper 3).
History (Paper 11 or Paper 12).
Geography (Paper 17).
translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
Music (Paper 43 or Paper 44).
Art (Paper 45).
Chemistry (Paper 24) provided that it be not offered in (ii).

Group G: Natural Sciences

- (i) *Either* Physics (Papers 22 and 23); with Chemistry (Paper 24).
 - or* Chemistry (Papers 24 and 25); with Physics (Paper 22 or Paper 23).
- (ii) Mathematics (Papers 18 and 19)
or Botany and Zoology (Papers 26 and 27)
or Geology (Papers 28 and 29).
- (iii) *One* of: English (Paper 3).
History (Paper 11 or Paper 12).
Geography (Paper 17).
translation from a language (*one* of Papers 6, 9, 30, 32, 34, 36, 38, 40).
Music (Paper 43 or Paper 44).
Art (Paper 45).
Mathematics (Paper 21) provided that Mathematics be not offered in (ii).
Physics (Paper 22 or Paper 23) provided that it be not offered in (i).
Chemistry (Paper 25) provided that it be not offered in (i).

Group H: Modern Languages

- (i) Celtic (Papers 30 and 31)
 - or* French (Papers 32 and 33)
 - or* German (Papers 34 and 35)
 - or* Italian (Papers 36 and 37)
 - or* Russian (Papers 38 and 39)
 - or* Spanish (Papers 40 and 41).

Entrance Bursaries

- (ii) *Either both* papers in another of the languages listed in (i)
 - or* Latin (Papers 9 and 10)
 - or* Greek (Papers 6 and 7) provided that German or Russian be offered in (i).
- (iii) *Either* Paper 42 as relevant to the two modern languages offered in (i) and (ii)
 - or* that part of Paper 42 relevant to the modern language offered in (i) and that part of Paper 8 relevant to the ancient language offered in (ii).
- (iv) *One of*: English (Paper 3).
Latin (Paper 9) provided that it be not offered in (ii).
History (Paper 11 or Paper 12).
Geography (Paper 17).
Mathematics (Paper 21).
Physics (Paper 22 or Paper 23).
Chemistry (Paper 24).
Botany or Zoology (Paper 26 or Paper 27).
Geology (Paper 28).
Music (Paper 43 or Paper 44).
Art (Paper 45).
- (v) Candidates are tested orally in the modern language or languages offered.

SYLLABUS

1. English Essay: on a subject of a general nature. A choice of subjects will be offered.
2. General Questions: *three* questions (to be selected from fifteen to twenty) on general topics, some of which are outside the normal school curriculum.
3. English Language and Literature: Reading and Interest—general practical tests of understanding and comprehension, and of the candidate's reading and interests.
4. English Language and Literature: Literature and Language I—advanced tests of understanding and comprehension of the English language, involving general knowledge of English literature.
5. English Language and Literature: Literature and Language II—critical discussion of passages of prose and verse, and tests of knowledge and aptitude in handling questions in English literature and the English language.
6. Greek: Unseen Translation—three passages for unseen translation of prose or verse from Greek literature of the classical period.
7. Greek: Prose Composition—one short passage for prose composition.
8. Greek and Latin: Language, Literature, History and Antiquities—questions on: (a) the grammar, syntax and metre of both languages; (b) the literature, history and antiquities of both Greece and Rome.
9. Latin: Unseen Translation—three passages of prose or verse for unseen translation from Latin literature of the classical period. The scansion of certain lines in the passages set for translation may be included.

Entrance Bursaries

PAPER

10. Latin: Prose Composition—one short passage for prose composition.
11. History: General European History, A.D. 400-1945—about thirty questions on all aspects of European History, of which *four* are to be answered, with no restriction on the choice.
12. History: British History, 55 B.C.-A.D. 1945—about thirty questions on all aspects of British History, of which *four* are to be answered, with no restriction on the choice.
13. History:
 - (a) Scottish History, 1488-1707—questions on the political, constitutional, ecclesiastical and social history of Scotland, and Scotland's foreign relations during this period.
 - (b) Scottish History, 1707-1945—questions on the political, ecclesiastical and social history of Scotland.
 - (c) History of the U.S.A., 1776-1945—twelve questions on the main topics of U.S. history, of which *four* are to be answered.
 - (d) The British Empire, 1713-1914—twelve questions on the main topics of Imperial History, of which *four* are to be answered.
 - (e) Britain and Europe, 1789-1914—twelve questions on the main problems of British foreign policy, of which *four* are to be answered.
 - (f) The Crusades, 1095-1292—twelve questions on the main problems, of which *four* are to be answered.
14. Geography: General Geography of Great Britain and the Commonwealth—questions of a regional, economic and social character.
15. Geography: Physical Geography—questions on landforms, drainage, climate and vegetation and their geographic relationships. Knowledge of major characteristic types is required.
16. Geography: Practical and Applied Geography—tests of the ability to assess and handle maps and to identify and comment on distributional patterns.
17. Geography: Geography of the British Isles and Western Europe—
 - (a) The geography of Scotland.
 - (b) The general geography of the British Isles and Western Europe (the latter including only France, the Low Countries, Western Germany, Switzerland, Italy, Spain and Portugal).In (b) there is emphasis upon economic and social aspects.
18. Mathematics: Geometry and Mensuration—questions set on the syllabus of the Scottish Leaving Certificate Examination in Higher Mathematics.
19. Mathematics: Algebra, Calculus and Analytical Trigonometry—questions set on the syllabus of the Scottish Leaving Certificate Examination in Higher Mathematics.
20. Mathematics: Analysis and Geometry—questions set on the syllabus of the Additional Papers in Mathematics of the Scottish Leaving Certificate Examination.
21. Mathematics: General Mathematics—a general paper set on the syllabus of Papers 18 and 19.
22. Physics: Mechanics, Properties of Matter and Heat—questions set on a syllabus approximating to that for Physics at the Higher Standard in the Scottish Universities Preliminary Examination, with more emphasis on an understanding of the factors operative in a physical situation than on its formal description. See note after Paper 23.

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23. **Physics: Electricity and Magnetism, Light and Sound**—questions set on a syllabus approximating to that for Physics at the Higher Standard in the Scottish Universities Preliminary Examination, with more emphasis on an understanding of the factors operative in a physical situation than on its formal description.
N.B.—A considerable choice of questions is available, though this is less for candidates offering Physics in Groups F (Mathematics) and G (Natural Sciences) than for other candidates.
24. **Chemistry: General Chemistry**—questions on the syllabus of the Chemistry Admission Examination (CALENDAR, p. 8) and, in addition, the general principles of volumetric analysis and of a systematic qualitative analysis for metallic and acidic radicals.
25. **Chemistry: Special**—questions on atomic structure and valency; the Periodic Classification; physical chemistry, with particular reference to rates of reaction, equilibria, the properties of solutions and colloidal systems, and the electro-chemical series; introductory organic chemistry.
26. **Botany**: questions on all the topics of Plant Science following the general lines of the syllabus for the Higher Paper of the Scottish Leaving Certificate Examination.
27. **Zoology**: questions following the general lines of the syllabus for the Higher Paper of the Scottish Leaving Certificate Examination. Some knowledge of the elements of Embryology, Evolution and Genetics is also required.
28. **Geology: Physical and Structural Geology**—questions on general structural features of the earth; weathering and erosion; transport and deposition of the products of denudation; nature of sedimentary deposits; intrusive and extrusive igneous activity; earthquakes; folding and faulting; development of mountains; metamorphism.
29. **Geology: Historical Geology, Mineralogy and Petrology**—questions on:
(a) The significance of fossils and their preservation; reference of stratigraphically important fossils to their biological group and their geological horizons; principles of stratigraphy; outlines of stratigraphy of Great Britain.
(b) The chemical composition and physical characters of the common rock-forming minerals and minerals of economic importance; the petrography of common igneous, sedimentary and metamorphic rocks.
30. **Celtic: Unseen Translation**—passages for translation from Scottish Gaelic.
N.B.—Candidates taking this paper in Group H (Modern Languages) are required to translate passages of greater difficulty than those set for candidates offering the same paper in Groups A to G. The standard of the passages set for Groups A to G is not lower than that of the corresponding Higher Paper of the Scottish Leaving Certificate Examination.
31. **Celtic: Prose Composition**—passages for translation into Scottish Gaelic. See note after Paper 30.
32. **French: Unseen Translation**—see note after Paper 30.
33. **French: Prose Composition, and Essay in French**—see note after Paper 30.
34. **German: Unseen Translation**—see note after Paper 30.
35. **German: Prose Composition, and Essay in German**—see note after Paper 30.
36. **Italian: Unseen Translation**—see note after Paper 30.

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37. Italian: Prose Composition, and Essay in Italian—see note after Paper 30.
38. Russian: Unseen Translation—see note after Paper 30.
39. Russian: Prose Composition, and Essay in Russian—see note after Paper 30.
40. Spanish: Unseen Translation—see note after Paper 30.
41. Spanish: Prose Composition, and Essay in Spanish—see note after Paper 30.
42. Modern Languages: Literature, General History and Civilisation—questions relating to the following periods:

Celtic	1600-1820
French	1630-1715
	1820-1870
	1870-1939
German	1770-1830
Italian	1305-1355
	1805-1890
Russian	1800-1850
Spanish	1600-1681
	1895-1926

N.B.—In French, Italian and Spanish candidates may, but are not required to, answer question relating to more than one period.

Candidates offering two modern languages are required to answer questions relating to *both* languages. The questions aim at testing critical ability and breadth of reading rather than factual knowledge.

43. Music: Harmony—questions on four-part diatonic harmony, including modulation, of the standard of a fairly florid Bach Chorale; free counterpoint in two parts; fundamental discords and basic progressions.
44. Music: History of Music and Musical Form—questions on musical history and literature from 1700 to the present day; the outlines of musical form.
45. Art: History of Art from A.D. 1300—questions on the development of painting, sculpture and architecture in Europe from A.D. 1300-1900. The paper includes a compulsory question involving identification from photographs.
46. Art: Practical examination in Drawing—candidates are required to undergo a practical test under supervision in drawing from a draped model, and are also required to submit an imaginative composition.

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TIMETABLE

Where more than one paper appears at any time in the table below a rearrangement of times will be made for any candidate wishing to offer more than one of these papers.

The dates of oral examinations in Modern Languages will be notified to candidates at the start of the written examination in these subjects.

The numbers in brackets are the numbers of the papers. See pp. 713-14.

	9-11.30 a.m.	12.30-3 p.m.	4-6.30 p.m.
MON.	(30) Celtic (38) Russian	(36) Italian (40) Spanish	(31) Celtic (39) Russian
TUES.	(43) Music (45) Art	(6) Greek	(44) Music (46) Art
WED.	(18) Mathematics (21) Mathematics	(7) Greek	(3) English
THURS.	(34) German	(37) Italian (41) Spanish	(35) German
FRI.	(32) French	(19) Mathematics	(33) French

	9.30-11.30 a.m.	1-3 p.m.
SAT.	(1) English Essay	(2) General Questions

	9-11.30 a.m.	12.30-3 p.m.	4-6.30 p.m.
MON.	(5), (8), (13), (16), (20), (25), (42) Special Papers ¹	(26) Botany	(4) English
TUES.	(22) Physics	(9) Latin	(23) Physics
WED.	(24) Chemistry	(11) History	(10) Latin
THURS.	(28) Geology	(12) History	(27) Zoology (29) Geology
FRI.	(14) Geography	(15) Geography (17) Geography	...

¹ English 5, Greek and Latin 8, History 13, Geography 16, Mathematics 20, Chemistry 25, Modern Languages 42.

Entrance Bursaries

Merit-List in the Entrance Bursary Examination, 1959

The groups of subjects taken by candidates are indicated in italics as follows: *C* = Classics; *E* = English and/or History; *L* = Modern Languages; *M* = Mathematics; *S* = Science.

General Bursary List.—1. Lonie, James W. L. (*C E*) (Falkirk High School) and Milne, Elizabeth A. (*M S*) (James Gillespie's High School for Girls). 3. Spiller, Michael R. G. (*C E*) (George Watson's Boys' College). 4. Campbell, Ian M. (*M S*) (Dunfermline High School) and Pickard, Willis R. S. (*C E L*) (Daniel Stewart's College). 6. Beattie, Robert (*E L*) (Daniel Stewart's College) and Hynd, James H. (*C E*) (Harris Academy, Dundee). 8. Bisset, Pamela M. (*C E*) (George Watson's Ladies' College), Bride, Iain M. (*M S*) (George Watson's Boys' College). 10. McGill, Neil C. (*M S*) (Royal High School), and Meiklejohn, Elaine C. (*E L*) (North Berwick High School). 12. Edwards, Margaret M. C. (*C E L*) (Kirkcaldy High School). 13. Reid, Jean F. (*C L*) (Dunfermline High School). 14. Mackenzie, Elizabeth R. I. (*CL*) (George Watson's Ladies' College). 15. Norton, Alan R. (*M S*) (Dollar Academy). 16. Aiken, Margaret M. (*E L*) (George Watson's Ladies' College). 17. Collins, Donald J. (*M S*) (George Watson's Boys' College). 18. Macfarlane, Iain M. (*M S*) (Dingwall Academy). 19. Butler, Christopher J. (*M S*) (Dunfermline High School). 20. Baptie, Robert C. (*M S*) (George Heriot's School). 21. Runcie, Alison M. (*C E L*) (Kirkcaldy High School). 22. McAlpine, David (*C L*) (Royal High School) and MacDonald, Mary S. (*M S*) (Dingwall Academy). 24. Thomson, Peter D. (*C E*) (High School of Dundee). 25. Czekalowski, George W. A. (*M S*) (George Watson's Boys' College). 26. Ballantine, David G. (*M S*) (Daniel Stewart's College) and Summers, James M. (*E L*) (Falkirk High School). 28. Roxburgh, Alexandra B. (*E L S*) (Bo'ness Academy). 29. Newlands, George M. (*C E*) (Perth Academy). 30. Chinnery, Frances J. (*C E L*) (James Gillespie's High School for Girls), Dobbie, Robert C. (*M S*) (Dollar Academy), and Scott, James S. (*M S*) (Hawick High School). 33. Hughes, John E. (*C L*) (Boroughmuir Senior Secondary School), McIntyre, Ian D. (*C L*) (Royal High School), and Sievwright, William M. (*M S*) (Arbroath High School). 36. Donald, John (*E L*) (George Watson's Boys' College), Reddick, John F. A. (*M S*) (Kirkcaldy High School), and Sneddon, John (*M S*) (Dunfermline High School). 39. Bower, Thomas G. R. (*C E*) (Dunfermline High School). 40. Schlemo, Beate E. E. (*E L*) (Montrose Academy).

John Welsh Classical Bursary List.—1. Lonie, James W. L. (Falkirk High School). 2. Hynd, James H. (Harris Academy, Dundee) and Spiller, Michael R. G. (George Watson's Boys' College). 4. Bisset, Pamela M. (George Watson's Ladies' College). 5. Thomson, Peter D. (High School of Dundee). 6. Gault, Anne (James Gillespie's High School for Girls).

John Welsh Mathematical Bursary List.—1. Bride, Iain M. (George Watson's Boys' College). 2. Milne, Elizabeth A. (James Gillespie's High School for Girls). 3. Campbell, Ian M. (Dunfermline High School) and MacDonald, Mary S. (Dingwall Academy). 5. Butler, Christopher J. (Dunfermline High School). 6. McGill, Neil C. (Royal High School) and Norton, Alan R. (Dollar Academy). 8. Ballantine, David G. (Daniel Stewart's College) and Collins, Donald J. (George Watson's Boys' College).

Kelland Prize.—Michael R. Binns.

Detailed List of Entrance Bursaries and Scholarships

N.B.—The values of bursaries are stated approximately

Abercromby Bursary.—£20 for one year (or longer at the discretion of the Heriot Trust); tenable in any Faculty, but restricted to pupils of George Heriot's School who have finished their course as Heriot bursars. A preference is given to students in Medicine. There will be a competition in the event of more than one applying. Apply to the Clerk to the Heriot Trust, 20 York Place, Edinburgh.

1958, Vacant.

***Anderson Bursary.**—£38 p.a.; tenable in Medicine. The bursary is awarded to a candidate beginning a Medical curriculum in the year of the award.

1951, J. A. Birkbeck.

Angus (Edinburgh) Club Dalhousie Bursaries.—Two bursaries of £40 p.a. for 3 or 4 years; tenable in Arts, but restricted to natives of Angus, or to candidates who have been educated at a school or schools in the county for not less than 5 years. The bursaries are awarded on the basis of the Entrance Bursary examination. Patrons, the Edinburgh Angus Club Educational Trust. Apply on forms to be obtained from I. R. Guild, W.S., 16 Charlotte Square, Edinburgh, 2, by 1st April.

1959, P. D. Thomson; Beate E. E. Schlemo.

***Archibald or McGuffie Bursaries.**—(a) One bursary of £35 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science; and (b) one bursary of £35 p.a.; tenable in Medicine. A preference is given to natives of the parishes of Dollar and Tillicoultry, and of the parish of Whithorn, Wigtownshire, and to students who have at any time been in regular attendance for a period of not less than one year at a school in any of the said parishes.

1957, G. J. Etchells. 1959, R. C. Dobbie (a).

***†Ardvorlich Bursary.**—£20 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to students who were born in, or whose parents or guardians ordinarily reside in, the parishes of Comrie, Balquhidder, Callander, or Killin, Perthshire; whom failing, to students who were born in, or whose parents ordinarily reside in, Perthshire. All enquiries should be directed to the Secretary to the University; only after the applicant has passed the bursary examination should any approach be made to the Patron, John Stewart, Esq., Ardvorlich House, Lochearnhead.

1955, W. A. B. Scott.

Association (Edinburgh) for the University Education of Women Bursaries.—(a) One Houldsworth bursary of £20 p.a. for 3 years; (b) one Mair bursary of £20 p.a. for 3 years; (c) one Simson (Frances) bursary of £20 p.a. for 3 years; (d) one Zetland bursary of £20 p.a. for 3 years; (e) one Stevenson (Louisa) bursary of £20 p.a. for 3 years. Each of the above bursaries is tenable in Arts or Science, but restricted to women, who generally are to reside at Masson Hall. The bursaries are awarded on the basis of the Entrance Bursary examination (the award of (c) is made for special distinction in English and Latin); but the executive committee may use their discretion and take special circumstances into account in making an award. During the period of the examination the executive committee interview candidates, who must give the names and the addresses of their headmasters or headmistresses, to whom application for references will be made. Patrons, The Edinburgh Association for the University Education of Women. Application forms from Miss J. Macrae Taylor, 6 Great Stuart Street, Edinburgh 3, to be returned by 25th March.

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1957, Laura R. Cruickshank (*a*); Winifrede H. L. Arthur (*b*). 1958, Jean M. MacGregor (*d*); Pamela S. Leask (*e*). 1959, Claire Lamont (*c*).

Auchairne Bursaries.—See Donaldson of Auchairne Bursaries.

Ayrshire (Edinburgh) Club Bursaries.—Three bursaries of £40 p.a. for 3 years; tenable in Arts, but restricted to natives of Ayrshire. Patrons, the Edinburgh Ayrshire Club. Apply to the Hon. Treasurer, 41 Northumberland Street, Edinburgh, by 1st April.

Baxter of Balgavies Bursaries.—Four bursaries of £38 p.a. for 3 years; tenable in Arts, Law, Medicine, or Science, but restricted to pupils of Dundee High School who have been educated there for at least one year immediately before the competition. Two bursaries (*a*) are awarded on the basis of the Entrance Bursary examination; the successful candidates, who must have passed the Preliminary examination or its equivalent, may study for the degrees of M.A., B.Sc., B.L., LL.B., or M.B., Ch.B. The other two bursaries (*b*) are awarded on the results of an examination in Mathematics and Physical Science conducted in Dundee. Apply to L. B. Weatherhead, Solicitor, 34 Reform Street, Dundee, by 1st April.

1957, J. R. G. Wright.

Baxter of Balgavies Scholarships.—Two scholarships of £40 p.a. for one year (or 2 if the Senatus report favourably on the holder's work, or 3 provided the holders shall have passed the first examination for B.Sc. in Engineering); tenable in Science, but restricted to pupils of Dundee High School who have finished their course at the time of award or within one year previously. These scholarships are not to be held with any other scholarship, fellowship, or appointment yielding £50 p.a. The examination, which is held in Dundee, is in Geometry, Algebra, Trigonometry, and Mechanical Drawing. During the first two years the holders must attend the classes of Mathematics, Natural Philosophy (lecture and laboratory courses), Engineering (two courses), and Chemistry; they may (by resolution of the Senatus) attend these classes in any order, provided they intimate their intentions to the Dean of the Faculty of Science beforehand. Patrons, the Directors of Dundee High School. Apply to L. B. Weatherhead, Solicitor, 34 Reform Street, Dundee, during April.

*†**Beattie (John) Bursary.**—£54 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of, or persons ordinarily resident in, the parish of Abernethy. Patrons, the Town Council of Abernethy. Apply to A. S. Munro, M.A., LL.B., Clydesdale Bank Buildings, Perth, by 1st April.

1955, J. V. C. Wylie.

Black (William) Memorial Bursary.—See Lanarkshire (Upper Ward of) Association Bursaries.

***Blair Bursary.**—£14 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science.

1955, A. V. Campbell.

Borderers' (Edinburgh) Association Bursaries.—(*a*) One Sir Walter Scott bursary of £30 p.a. for 4 years; (*b*) one T. T. M'Crow bursary of £10 p.a. for 3 years; and (*c*) four Strang Steel bursaries of £30 p.a. for 3 or 4 years; and (*d*) one Walker Memorial Bursary of £40 p.a. for 3 years. The bursaries (*a*) and (*b*), which are tenable in Arts, Medicine, and Science, by students intending to graduate, are restricted to pupils of schools in the counties of Roxburgh, Berwick, or Selkirk, or in Berwick-on-Tweed, who have been educated in these schools for two complete sessions immediately before the competition. These bursaries are awarded on the basis of the Entrance Bursary examination. The

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bursaries (*c*), which are tenable by students intending to graduate in any Faculty in a Scottish University are restricted to students born in, or for the five years prior to 31st March in the year of examination resided in, the parishes of Ashkirk, Caddonfoot, Ettrick, Kirkhope, Selkirk, Teviothead, or Yarrow, and in need of pecuniary aid to enable them to derive the greatest benefit from a university education; whom failing, to students born in, or resident as aforesaid in, any of the other parishes in the counties of Roxburgh or Selkirk. The subjects to be taken in the Entrance Bursary examination are English and three others selected by the candidate. The Bursary (*d*) is tenable by students who are natives of one of the Border Counties of Scotland, preference always being given to a native of the County of Berwick. Patrons, the Edinburgh Borderers' Association. Apply to W. G. Douglas Elliot, S.S.C., 21 Rutland Square, Edinburgh, 1, by 1st April.

1954, J. C. Hart (*c*). 1955, D. M. Lawrie (*c*); R. C. Dougal (*b*). 1956, John Smith (*c*); Jessie B. Miller (*a*). 1957, Margaret N. Romanis (*c*); J. B. Craig and W. P. Bradford (*d*).

***Browne Bursary.**—£24 p.a.; tenable in any Faculty. Patrons, the Town Council of Edinburgh.

1956, G. A. Millett.

***Bruce Bursaries.**—Five bursaries of £50 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of Scotland. Patrons, the Town Council of Edinburgh.

1955, W. T. Eadie. 1956, G. A. Weir; R. A. Reid. 1957, I. G. Halliday and W. R. McKay.

***Bruce of Grangehill Bursaries.**—Three bursaries of £60 p.a.; tenable in any Faculty.

1955, Joyce McLeod. 1956, Moira F. Gunn. 1958, G. R. H. Greaves.

***Cairns Bursary.**—£30 p.a.; tenable in Law and restricted to students beginning their curriculum. The bursary is awarded on the basis of the Entrance Bursary examination, Latin being a compulsory subject.

Caithness (Edinburgh) Association Bursaries.—(*a*) One Association bursary, (*b*) one Rhind bursary, (*c*) one Ladies' bursary combined with the bursary in memory of the 13th and 14th Earls of Caithness, and (*d*) one Miller bursary, all of £20 p.a. for 4 years; (*e*) one Campbell bursary of £10 p.a. for 4 years; and (*f*) one M'Beath bursary of £8 p.a. for 4 years; all tenable in any Faculty at any Scottish University or central institution. The bursaries (*a*), (*b*), (*c*), (*d*), and (*f*) are restricted to persons who have been at least six months at a school in Caithness (that school being the last they have attended before the examination) and who have not attended a university or training college. The bursary (*e*) is restricted to natives of Caithness who have regularly attended Halkirk Public School for not less than three years and thereafter any secondary school in Caithness. All six bursaries are awarded on the basis of the Scottish Education Department's Leaving Certificate examination on the higher standard in History, Geography, Technical Subjects, Commercial Subjects, Domestic Subjects, Art, Music, Dynamics, English, French, German, Greek, Latin, Mathematics and Science. Candidates are restricted to four subjects, one of which must be English. Apply to George Mowat, 78 Morningside Drive, Edinburgh, 10.

1953, Christina Sandison (*d*). 1954, Jessie C. Budge (*e*) and J. Mowat (*f*). 1955, Alex. Ironside (*c*). 1956, Alex. Sutherland (*a*). 1956, W. J. Dawson (*b*).

Campbell Bursary.—See Caithness (Edinburgh) Association Bursaries.

***Campbell (Robert Mackenzie) Bursary.**—£35 p.a.; tenable in any Faculty. A preference is given to students who are natives of, or ordinarily resident in, the county of Sutherland.

1957, M. Sagman.

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*†**Christie Bursary**.—£15 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. Patrons, the Faculty of Advocates. Apply to the Clerk of Faculty, Advocates' Library Edinburgh, by 1st March.

1958, J. P. McNab.

Clan Mackay Society Bursaries.—(a) One A. Y. Mackay bursary of £8 for one year; tenable in any Faculty of any university or in any school, technical college, or teaching or training institution, but restricted to students named Mackay or M'Kay; (b) James Mackay bursaries of £25 p.a. for 3 years; (c) one Victoria bursary of £20 p.a. for 3 years; tenable in any Faculty at any Scottish University, or at the Royal Technical College, Glasgow, or the Heriot-Watt College, Edinburgh, or at any technical or commercial college approved by the trustees, but restricted to first-year students named Mackay or M'Kay. Apply on forms to the Interim Secretary, A. M. Mackay, 60 Merryton Avenue, Giffnock, Renfrewshire, by 31st July.

Coldstream Memorial Medical Missionary Bursary.—See Faculty of Medicine Programme.

***Cousin Bursary**.—£41 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science.

1957, Elizabeth J. Campbell.

Cowan House Residential Scholarships.—(a) *Entrance Scholarships*—The aim of the Scholarship Fund is to attract to Cowan House "young men who, in respect of intellectual force or other personal characteristics, are likely to have a useful influence on their fellow-students and become a credit to the University."

The Scholarships are tenable in any Faculty. They are awarded mainly on the results of the Entrance Bursary examination; the financial circumstances of the candidate are also taken into consideration. The scholarships are tenable usually for two years. They will normally be of a value not exceeding £120 p.a. and will be sufficient to supplement any sums which are being received by the scholar from other sources, such as bursaries or grants from public authorities (not including grants from the Carnegie Trust for the Universities of Scotland) up to a total of £120 p.a.; the amount to be paid from the Cowan House Scholarship Fund will not, however, be less than £20 p.a., unless it is decided in consideration of the special circumstances of the case that the award shall be limited to the title of "Cowan House Entrance Scholar" without any financial grant.

Candidates for these Scholarships must, when entering for the Entrance Bursary examination, fill up an additional entrance form to be obtained from the Matriculation Office.

(b) *Senior Scholarships*—Senior Scholarships may be awarded to men in their second or subsequent years of study. Enquiry regarding these should be made to the Dean of the applicant's Faculty before 1st May.

1958, I. T. Drummond, M. Leber, D. J. C. Shearman, D. J. S. Robinson.

***Crichton Bursaries**.—Fifteen bursaries of £75 p.a.; tenable in Medicine. A preference is given to natives of Scotland.

1953, P. C. Alexander. 1954, W. L. Ford. 1955, Margaret J. C. Somerville and Isobel M. Cochrane. 1956, Sheila A. McGregor, Douglas W. Dingwall and W. F. Main. 1957, Wilma M. Trail, W. J. Gillespie and Eva A. Forbes. 1958, C. M. Steel, Kathleen M. Gardner, Dorothy A. R. Leslie.

***Dalgleish and McMorran Bursary**.—One bursary of £13 p.a.; tenable in Arts, or, with the permission of the Senatus, in Pure Science. Patrons, the Town Council of Edinburgh.

1959, Frances J. Chinnery.

Entrance Bursaries

Dalhousie Bursaries.—See Angus (Edinburgh) Club Dalhousie Bursaries.

***Davidson Bursary.**—£21 p.a. for 3 or 4 years; tenable in Arts, or, with the permission of the Senatus, in Pure Science, but restricted to pupils of North Berwick High School.

Dawson Bursary Trust Bursaries.—Bursaries of £80 p.a. for 3 or 4 years; tenable in Science. At least one bursary may be awarded every year. The bursaries will be awarded with a regard partly to the educational attainments of the candidates as shown by the results of the Entrance Bursary examination, in which they must include Mathematics and Natural Philosophy among their subjects, and partly to the candidates' needs of financial assistance in the prosecution of their studies. Patrons, the Trustees of William Dawson. Apply on forms to D. A. Little, 5 Thistle Street, Edinburgh, 2, by 1st April.

1954, R. A. McLaren. 1956, Marjorie G. Roy and Alan A. Watson. 1957, I. A. Campbell.

***Donaldson of Auchairne Bursaries.**—Three bursaries of £73 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science. A preference is given to natives of Ayrshire.

1956, Derek S. Ruxton. 1958, A. D. McCowan. 1959, Elaine C. Meiklejohn.

Dow Bursaries.—Two bursaries of £10 p.a. for 3 years; tenable in Arts at any Scottish University, preferably St Andrews, but restricted to persons educated in the parish of Kirkmichael, Perthshire, who are natives of that parish, or of the parish of Moulin. Apply to J. & H. Mitchell, W.S., Pitlochry, Perthshire, before the beginning of the autumn term.

1958, D. Dryden.

Duart Bursary.—See Stewart (Duart) (James) Bursary.

Dunbar Bursaries.—Four bursaries of £30 p.a. for a full curriculum in Arts and Divinity; tenable at any Scottish University, but restricted to students (men or women) studying for the ministry or the mission field of the Church of Scotland. A preference is given to natives of Dunbar. Patrons, the Presbytery of Haddington and Dunbar. Apply to the Rev. T. Arthur Tulloch, M.A., The Manse, Whitekirk, East Lothian.

1957, Graeme Browne, K. M. Boyd, I. R. Fisher, A. G. S. Walker.

*†**Dundas Bursaries.**—Two bursaries of £35 p.a.; tenable in Arts, or with the permission of the Senatus, in Pure Science. Patrons by turns (a) the heirs of James Dundas of Dundas (apply to Lindsay, Jamieson & Haldane, C.A., 24 St Andrew Square, Edinburgh); (b) the heirs of Robert Dundas of Arniston (apply to J. & F. Anderson, W.S., 48 Castle St., Edinburgh; only such candidates as have some connection with the Dundas family or with the Arniston estate need apply); and (c) the Senatus.

1958, M. R. Binns (c). 1959, R. Beattie (c).

Dyke Bursaries.—See Gillan Bursaries.

Edinburgh Angus Club Dalhousie Bursaries.—See Angus (Edinburgh) Club Dalhousie Bursaries.

Edinburgh Association for the University Education of Women Bursaries.—See Association (Edinburgh) for the University Education of Women Bursaries.

Edinburgh Ayrshire Club Bursaries.—See Ayrshire (Edinburgh) Club Bursaries.

Edinburgh Borderers' Counties Association Bursaries.—See Borderers' (Edinburgh) Association Bursaries.

Edinburgh Caithness Association Bursaries.—See Caithness (Edinburgh) Association Bursaries.

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Edinburgh Morayshire Club Bursaries.—See Morayshire (Edinburgh) Club Bursaries.

Edinburgh Upper Ward of Lanarkshire Association Bursaries.—See Lanarkshire (Upper Ward of) Association Bursaries.

***Fairbairn (James) Bursary.**—£32 p.a.; tenable in any Faculty.

1956, Veronica J. Gray.

***Ford Bursary.**—£33 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science. Patrons, the Town Council of Edinburgh.

1959, D. G. Ballantine.

Forres Bursaries.—See Gillan Bursaries.

***Fotheringham and Forrest Bursaries.**—Two bursaries of £34 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science.

1957, Ann R. Dunlop. 1959, Elizabeth R. I. Mackenzie.

***Fraser (Thomas) Bursaries.**—Two bursaries of £25 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. Patrons, the Town Council of Edinburgh.

1957, D. G. Vass. 1958, J. H. Purves.

Gillan Bursaries.—Four bursaries of £20-30; tenable in Arts and Divinity, but restricted to young men proposing to study for the ministry of the Church of Scotland. A preference is given first to applicants from the parishes of Dyke and Forres; secondly to applicants from the parishes of Dallas, Edinkillie, Kinloss, and Rafford; and thirdly to applicants from the counties of Moray and Nairn. Patrons, the Trustees of James Gillan. Apply to R. & R. Urquhart, Solicitors, Forres.

***Grant Bursaries.**—Four bursaries of £50 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education.

1956, P. I. Haggard. 1957, J. S. Munro. 1958, Inga C. Wellesley. 1959, J. W. L. Lonic.

***Grierson Bursaries.**—(a) Five bursaries of £35 p.a. tenable in Arts or, with the permission of the Senatus, in Pure Science; (b) three bursaries of £56 p.a. tenable in Law; (c) five bursaries of £35 p.a. tenable in Medicine; all the bursaries restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of the parishes of Crawford and Crawfordjohn, Lanarkshire. Candidates for the Law bursaries must select Latin as one of the subjects in the Entrance Bursary examination.

1955, C. L. Murison (b). 1956, M. Montgomery (b); Hudith H. McAlister (a). 1957, R. C. Hollands (a). 1958, H. B. Nisbet (a); D. K. Scott (a). 1959, Pamela M. Bissett (a).

Grigor Bursary.—£30 p.a. for 5 years; tenable in Medicine, but restricted to students who are either natives of, or, at the date of application, resident in, the county of Nairn, and who have for five years previously resided in the county, and whose parents are unable to defray the cost of their Medical curriculum. Apply to the Director of Education, Education Offices, Elgin, by 31st May.

1958, M. McTaggart and A. Marshall.

Highlands and Islands Education Trust Bursaries.—Ten bursaries of (a) £25 p.a. (or more at the discretion of the Governors) for 3 years; two John Raining bursaries of (b) £20 p.a. and (c) £15 p.a. for 3 years; and (d) one Roderick Macleod bursary for proficiency in Gaelic; all tenable in any Faculty of a Scottish University, but restricted to Protestant students who are ordinarily resident in the counties of Argyll, Bute, Caithness, Inverness, Orkney, Ross and Cromarty, Sutherland, and Zetland, or in such parts of the counties of Aberdeen, Banff, Dumbarton, Kinross, Moray, Nairn, and Perth as the

Governors may determine. The bursaries are awarded to candidates who are still at school (or who, having left school, are not yet university students) and not nineteen till 1st August 1958, partly on the candidates' financial requirements, school records, and knowledge of Gaelic; and partly on the results of a Religious Knowledge examination (to be held at the candidates' schools, the subjects being:—certain prescribed parts of the *Bible*; a general knowledge of the *Bible*; and *The Shorter Catechism*); and the results of the Leaving Certificate examinations in three subjects on the higher standard. The bursaries are tenable along with other bursaries; but, except the John Raining and the Roderick Macleod bursaries, no two bursaries of this Trust can be held concurrently. One of the (a) bursaries may be extended for a fourth year in an Honours curriculum, application for extension being made by bursars by 30th April in the second year of tenure. The (b) and (c) bursaries are for the augmentation of the (a) bursaries awarded to the first and second candidates in the merit-list. The (d) bursary is awarded for proficiency in Gaelic in particular. Patrons, the Governors of the Highlands and Islands Education Trust (agent, A. G. Cairns, W.S., 11 Alva Street, Edinburgh). Apply on forms to be obtained from the Director of Education in the candidate's county after 1st December and returned to him by 21st January.

1957, Evelyn B. Rendall, Jean H. McArthur, Flora K. Paterson, M. A. Grant, Isobel C. Bain, Ann M. Crawford, Agnes C. Henry, Mary H. McArthur, Barbara E. Sutherland, Davidina M. Maclean, L. D. Bain, W. S. Burgess.

Houldsworth Bursary.—See Association (Edinburgh) for the University Education of Women.

Inverness-shire (London) Association Bursary.—£18 p.a. for 3 years; tenable at any Scottish University; but restricted first to natives of Inverness-shire, who are judged on the basis of the Entrance Bursary examination (with Gaelic as one of the subjects); failing any such candidate, the bursary may be awarded to the candidate who stands highest in the examination and has obtained at least 50 per cent. of the marks in Gaelic. Patrons, the London Inverness-shire Association. Preferential candidates apply to John Fraser, 4 Muirdown Avenue, East Sheen, London, S.W. 14. (This bursary is at present in abeyance.)

***Jamieson Bursary.**—£36 p.a.; tenable in any Faculty, but restricted to students requiring pecuniary aid in obtaining a university education. A preference is given to persons born and ordinarily resident in any of the following parishes, Biggar, Coulter, Crawford, Crawfordjohn, Wandel and Lamington, Wiston and Robertson, who are children of farmers, schoolmasters, mechanics, labourers, and persons with small incomes; and failing such candidates, to persons born and ordinarily resident in Lanarkshire who are children of farmers, schoolmasters, mechanics, labourers, and persons with small incomes.

1958, Christian J. Kay.

***Jardine (Bidder) Bursary.**—£40 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of Scotland.

1956, E. M. Huggins.

***Jardine of Thorlieshope Bursaries.**—Eight bursaries of £49 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of the counties of Dumfries and Roxburgh (excluding villages and towns in the said counties with a population exceeding 2000) who have regularly attended one or more of the public schools in either county for not less than one year.

1956, Grace M. Dingwall, W. Lowrie. 1957, J. R. G. Wright and Evelyn B. Rendall. 1958, D. J. Kellas and A. T. Davies. 1959, I. M. Campbell; J. S. Scott.

Entrance Bursaries

*†**Johnstone (Archibald) Bursary.**—£20 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science. Patron, the Earl of Haddington. Apply to Messrs Cuthbertson & Watson, W.S., 7 Rothesay Terrace, Edinburgh, by 1st April.

1954, Shirley A. Straw. 1956, Jean H. Clyne.

***Johnstone of Harthope Bursary.**—£22 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to students ordinarily resident in the parish of Peebles or the parish of Moffat.

1957, Catherine M. Maciver.

*†**Johnstone (Robert) Bursaries.**—Three bursaries of £25 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science. Patrons of two bursaries (*a*) the heirs of J. J. H. Johnstone, Annandale (apply to J. Greenshields, Annandale Estate Office, Moffat, by 1st April), of the third (*b*) the Town Council of Edinburgh.

1957, Majory J. Gardiner. 1958, A. W. Edwards (*b*). 1959, C. J. Butler.

Ladies' Bursary.—See Caithness (Edinburgh) Association Bursaries.

Lambert Bursary.—£40 p.a. for 4 years; tenable in Arts. The bursary cannot be offered until after the death of an annuitant.

Lanarkshire (Upper Ward of) Association Bursaries.—(*a*) One Association bursary of £20 p.a. for 4 years, tenable in any Faculty; and (*b*) one William Black Memorial bursary of £27, 10s. p.a. for 4 years (or less as the Association may decide), tenable in any Faculty of any Scottish University. The bursary (*a*) is restricted to natives of, or residents in, the Upper Ward of Lanarkshire, who have received a certain portion of their education in a school in the Ward. The bursary is awarded to students who have sat the Entrance Bursary examination or to students already attending the University. Patrons, the Edinburgh Upper Ward of Lanarkshire Association. The bursary (*b*) is restricted to natives of the parish of Libberton and Quothquan, Lanarkshire, who have at any time attended the public school of that parish; failing such a candidate of sufficient promise, the bursary may be awarded to a native of one of the parishes of Carnwath, Walston, or Dunsyre, who has at any time attended the public school of his native parish. The bursary is awarded on the basis of the Entrance Bursary examination of the Scottish University which the Association may in any year elect. Apply for either bursary to J. M. Davidson, W.S., 12 Hope Street, Edinburgh, 2, by 31st March.

1957, W. R. Renwick (*a*); I. F. Scott (*b*).

***Lennie Bursaries.**—Two bursaries of £24 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. Every holder is enjoined by the will of the founder to repay, as soon as he or she is able, the amount received; such repayments will be applied to the award of additional Lennie bursaries. Patrons, the Town Council of Edinburgh.

1957, A. W. Macrac. 1958, I. S. Mackenzie.

Lewis Bursaries.—Two bursaries of £16 p.a. for a full curriculum in any Faculty (or longer in exceptional cases as the University may decide); restricted to natives of Lewis, born of Lewis parents, one bursary being assigned to the parish of Stornoway, and the other to the rest of the Lewis area. The candidates must have completed their secondary education or the final stages of it at the Nicolson Institute, Stornoway, and have passed the Preliminary examination of the University or its equivalent. Nominations will be made to the University, whose decision will be final, by the Local School Management Committee through the County Council.

1955, A. Macarthur.

London Inverness-shire Association Bursary.—See Inverness-shire (London) Association Bursary.

M'Beath Bursary.—See Caithness (Edinburgh) Association Bursaries.

McCaig Bursary.—£70 p.a. for 3 years (or for 4 or more years, if a holder has made satisfactory progress and intends to graduate with Honours); tenable in Arts at any Scottish University by a Protestant student who means to graduate and who includes Gaelic in his or her course of study. A preference is given to Presbyterians born in Argyll, provided that they have reached a sufficiently high standard in the Entrance Bursary examination, on the basis of which the bursary is awarded. Patrons, the Governors of Catherine McCaig's Trust. Apply on forms to William Hume, B.L., 55 West Regent Street, Glasgow, C.2, by 1st April.

1958, Morag MacKenzie.

McCrow Bursary.—See Borderers' (Edinburgh) Association Bursary.

***McDiarmid Bursary.**—£10 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to natives of Dumfriesshire or of the Stewartry of Kirkcudbright.

1956, Jane R. R. Smith.

***Macdonald (William) Bursaries.**—Three bursaries of £50 p.a.; tenable in any Faculty. A preference is given to students entering the University from the High School, Stranraer, or from any secondary school in Skye, or, failing the latter, from any secondary school in Inverness-shire.

1957, A. Howie. 1958, Lesey G. Thornton. 1959, M. R. G. Spiller.

MacDougall (John and Isabella) Bursaries.—Bursaries of not more than £100 p.a. for 3 years may be offered; tenable in Arts, but restricted to students born within the City or County of Perth, who may now hold any bursary, appointment or award, whether open to competition or not, the total amount of which other bursary, etc., does not exceed £100 p.a. A preference is given to students undertaking to attend the Gaelic class. The examination is held in spring. Patrons, the Trustees of Isabella MacDougall. Apply to J. W. Rollo Mitchell, M.A., LL.B., Solicitor, 42 George Street, Perth.

1956, Alison M. Brooke. 1957, Irene R. P. Finlayson and E. M. McPherson. 1958, Thelma M. Ross, Alison M. G. Andrews, G. A. M. Lindsay.

McGuffie Bursaries.—See Archibald or McGuffie Bursaries.

Mackay (A. Y.) Bursary and Mackay (James) Bursaries.—See Clan Mackay Society Bursaries.

***Mackenzie (Stornoway) Bursary.**—£42 p.a.; tenable in any Faculty.

1956, Alexander Sutherland.

***Mackinnon Bursaries.**—Three bursaries of £50 p.a. for 3 years. A preference is given to candidates who declare their intention, if elected, of taking a degree in Engineering, provided that their name appears on the published list of candidates whose performance in the examination is meritorious. The bursaries are awarded on the basis of the examination for the John Welsh bursaries in Mathematics.

1957, Alison I. Drever. 1958, A. L. Manson. 1959, I. M. Bride.

McKissack Bursary.—See Faculty of Divinity Programme.

MacLaine (Gillian) Bursaries.—Two bursaries of £75 p.a. for 3 years; tenable in Arts at any Scottish University, but restricted to Gaelic-speaking men proposing to study for the ministry of the Church of Scotland. Apply for examination syllabus, etc., to the Rev. Angus J. Macvicar, M.A., Manse of Southend, Campbeltown.

1957, I. N. MacDonald.

Entrance Bursaries

***McLauchlan Bursary.**—£50 p.a. for 3 years (or longer); tenable in Arts, but restricted to a candidate in the Entrance Bursary examination who has included Celtic among the subjects attempted by him at that examination. The holder must attend at least the Ordinary Celtic class as part of his degree curriculum.

***Maclaurin Bursaries.**—Two bursaries of £70 p.a.; tenable in any Faculty. Patrons, the Town Council of Edinburgh.

1957, P. P. Eggleton. 1959, Elizabeth A. Milne.

Maclean (Alexander) Bursaries.—Bursaries of £30 p.a. for 4 years (of which 3 must be in Arts and, after graduation, the fourth in any other Faculty); tenable at any Scottish University, but restricted to students of the name of Maclean who are beginning an Arts curriculum. The bursaries are awarded on the basis of a competitive examination. The holders must attend at least two graduation classes during each winter session of their Arts curriculum. The bursaries are not tenable along with any other bursary. Apply on forms (to be returned by 31st July) to the Town Clerk, City Chambers, Glasgow.

MacLean (John) Scholarship.—£100 p.a.; tenable for three years (minimum) to six years (maximum); open for competition to students born in the Island of Tiree, Argyllshire, who shall undertake to pursue, unless prevented by illness or other unavoidable causes, for a period of not less than three years, a course of study in the classes of the Faculty of Medicine of the University of Edinburgh qualifying for a Medical Degree. Application forms may be obtained from the Honorary Secretary of the Tiree Association, 29 Albert Drive, Bearsden, Glasgow, to whom entries must be made on or before 15th May. Applicants must undergo the Entrance Bursary Examination of Edinburgh University.

Macleod (Roderick) Bursary.—See Highlands and Islands Educational Trust Bursaries.

Mair Bursary.—See Association (Edinburgh) for the University Education of Women Bursaries.

***Mann Bursaries.**—Three bursaries of £33 p.a.; tenable in any Faculty. A preference is given to students resident in the burgh of Nairn and students whose parent or parents are ordinarily resident in the same burgh.

1956, Mairi H. Elmslie. 1958, D. Gould. 1959, A. R. Norton.

Manson (William) Memorial Prize.—See under Welsh (John) Bursaries.

***Marshall Bursary.**—£58 p.a.; tenable in any Faculty. A preference is given to natives of West Lothian.

1959, Alexandra B. Roxburgh.

Masterton Memorial Bursary.—£30 p.a.; tenable in Arts at any Scottish University, but restricted to sons and daughters of ministers of the Church of Scotland who are beneficiaries of the Society for the Benefit of Sons and Daughters of the Clergy of the Church of Scotland, and who must take the Entrance Bursary examination. Patrons, the above Society. Apply to D. G. M'Gregor, W.S., 117 Hanover Street, Edinburgh, 2.

1958, N. I. MacKinnon.

***Maule Bursaries.**—Four bursaries of £21 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education.

1956, A. Maclean. 1957, Helen K. J. Ferric. 1958, Thelma M. Ross. 1959, D. McAlpine.

Menzies Bursaries.—Four bursaries of £50 p.a. (or as the patrons shall determine) for 4 years; tenable in Arts or Science at the Universities of St Andrews, Glasgow, or Edinburgh. Candidates must submit the Attestation of Fitness of the Scottish Universities Entrance Board and must undertake to pursue a full graduation course in Arts or Science. A preference is given in the following order: (a) to relatives of the founder, James Menzies, fish

merchant in Glasgow; (b) to persons of the name of Menzies; (c) to persons born on the estate of Menzies in the parishes of Dull, Weem, and Fortingall; and (d) to the person who shall be judged best qualified and most deserving. Patrons, the Ministers of Dull, Weem, and Fortingall. Apply to Miss Annie L. Macfarlane, The Manse, Dull, by Aberfeldy, by 15th August.

1954, Fiona B. Stewart (Edinburgh). 1955, Carol E. L. Menzies (St Andrews). 1956, Mona M. Lindsay (St Andrews). 1957, D. M. Carmichael (Edinburgh).

Millar Bursary.—£23, 12s. p.a. for 4 years; restricted to a student during his Arts curriculum who intends to enter the ministry of the Church of Scotland, Patrons, the Kirk Session of Kippen. Apply to the Minister of Kippen. Stirlingshire.

1958, K. M. Boyd.

Millar Bequest Bursaries.—Bursaries of such number and for such amount not exceeding £50 as Trustees decide for not exceeding 4 years. Tenable at any Scottish University, Training College or Centre or Theological or Divinity Hall, but restricted to men and women who are to study Divinity for at least one year, and who are preparing for service in Foreign Mission Field. Preference given to natives of (First) County of Caithness; (Second) County of Sutherland; (Third) County of Ross; (Fourth) Counties of Shetland and Orkney; (Fifth) Scotland; (Sixth) Great Britain and Northern Ireland. Patrons, the Magistrates and Protestant Ministers of Thurso. Apply for particulars to John Graham, Solicitor, North Bank Buildings, Thurso.

Miller Bursary.—See Caithness (Edinburgh) Association Bursaries.

Milligan-Paulin Bursaries.—The number and the value of the bursaries are at the discretion of the Trustees. They are tenable in any Faculty, but are restricted to students who have been resident for three years in the parish of Dryfesdale, or the burgh of Lockerbie, or the burgh or parish of Lochmaben. Patrons, the Provosts and Bailies of Lochmaben and Lockerbie. Apply for further particulars to The Town Clerk, Lockerbie.

1957, Nancy Knox, James A. Wyllie, A. C. Fletcher, J. Y. Johnston.

Miners' Welfare National Scholarships and Exhibitions.—(a) Scholarships covering the expenses of education and maintenance at a University; (b) exhibitions from £25 upwards. The scholarships are tenable at any university or constituent college of a university in Great Britain for internal degree courses in any Faculty; a limited number of awards are also offered to candidates already at a university (i) to enable them to interpolate an approved course of study, not necessarily at the same university, at any stage during the period of an internal degree course already commenced, or (ii) to enable them to undertake a course of post-graduate study not necessarily for research. Applications for the latter types of award ((i) and (ii)) will be considered only on the special recommendation of the Vice-Chancellor or Principal of the candidate's university or college. Exhibitions are tenable on terms similar to those governing scholarships but may be applied for separately and held for any course of further education leading to a recognised qualification at an approved institution; a limited number of exhibitions are also offered for vocational study and travel abroad but can be considered only on the special recommendation of the Vice-Chancellor or Principal of a university or college. Both scholarships and exhibitions are restricted to British subjects not less than 17 years of age as at 25th January (by which date applications must be lodged) who must be employed in the coal mining industry of Great Britain and persons who have ceased to be so employed by reason of age or disability, or who, having ceased to be so employed for any other reason, have not subsequently changed their occupation, and the sons, daughters or dependant of any such persons. Full particulars of the awards can be obtained from the Secretary, Miners' Welfare National Scholarship Scheme, 5 Hobart Place London, S.W. 1.

1958, Maureen Cooke (a), L. R. Laws (a), J. B. Paton (a), R. J. Purvis (a).

Entrance Bursaries

***Mitchell and Shortt Bursary.**—£36 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education.

1956, J. C. G. Strachan.

Morayshire (Edinburgh) Club Bursaries.—Two bursaries of £25 p.a. for 3 years (or longer); tenable for a graduation curriculum in Arts, Science, Medicine (including Dentistry), Divinity, Law, or any other Faculty approved by the Club, but restricted to natives of the county of Moray, preference being given to those who have attended a school or schools in the county for at least five years immediately before the date of the competition. The bursary is awarded on the basis of the Entrance Bursary examination. Patrons, the Edinburgh Morayshire Club. Apply to Ian Grant Smith, 7 Rothesay Terrace, Edinburgh, 3, by 1st April.

1957, No award.

Nairn Bursaries.—Four bursaries of £25 p.a. for 4 years; tenable in any Faculty at any Scottish, English, or foreign University, or any Technical College, but restricted to pupils of Kirkcaldy High School who have been in attendance for the two years immediately before the date of the examination. The bursaries are awarded on the basis of the Entrance Bursary examination of Edinburgh University. Patrons, the Fife County Council, Kirkcaldy. Apply to County Clerk, County Offices, Wemyssfield, Kirkcaldy.

1955, S. Hart. 1956, Douglas Dingwall. 1957, Jean H. Eadie. 1958, W. C. Beveridge.

Newland (John) Bursaries.—One bursary annually of £60 p.a. for such a period as is necessary for graduation; tenable in any Faculty of any Scottish University, but restricted to pupils of Bathgate Academy. The bursaries are awarded on the basis of the Entrance Bursary examination along with the school records of the candidates. Patrons, the Governors of the West Lothian Educational Trust. Apply to Scott-Moncrieff, Thomson & Shiells, 17 Melville Street, Edinburgh.

1956, Janet I. R. Hutton. 1957, R. J. B. Paris. 1958, J. S. Danskin. 1959, No award.

North of Scotland Hydro-Electric Board Scholarships.—One scholarship of either £200 (where the holder lives at home) or £250 (where the holder does not live at home) per annum for a period of three or four years. One scholarship is awarded each year to a student entering either the University of Glasgow or the University of Edinburgh and intending to follow a course for the degree of B.Sc. with honours in Electrical Engineering. Other things being equal, preference will be given to a candidate interested in electricity development in the North of Scotland.

Each scholarship will normally be awarded to a student entering the first year of study on the basis of performance in the University Entrance Bursary Competition. Candidates must include mathematics and physics in the subjects of examination. If there is no candidate of sufficient merit, the scholarship may be awarded on the recommendation of the Professor of Engineering to a student entering the second year of study. The holder of the scholarship will be expected to consult the Board about any employment or training engaged in during the vacation periods.

Applications for consideration for the award of this scholarship should be made to the Secretary, North of Scotland Hydro-Electric Board, 16 Rothesay Terrace, Edinburgh 3, by 1st April. Candidates intending to study in the University of Edinburgh must also enter their names for the Entrance Bursary Competition at the Matriculation Office, Old College, by the same date.

Orkney and Zetland Bursary.—£49, 10s. p.a. for 3 years; tenable in Arts, but restricted to first-year students who were born in Orkney or Zetland, or of whom one or both parents were born in, or have been for long connected with, Orkney or Zetland. Patrons, the Orkney and Zetland Bursary Trustees. Apply to Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, 2, by 1st April.

1957, Anne E. A. Thorpe.

Paterson (Sara) Bursaries.—Two bursaries:—(a) £30 p.a. for 2 years, tenable in Law; and (b) £30 p.a. for 5 years, tenable in Medicine; both restricted to students who have attended the Mary Erskine School for Girls for at least the last three years of their school course, and who hold the Leaving Certificate of the Scottish Education Department. Candidates for (a) must be either pupils just leaving the College or former pupils of the College who are beginning the study of Law. Candidates for (b) must be fully qualified to begin the study of Medicine and must have been accepted as entrants to the Faculty of Medicine; a preference will be given to those who gained their Group Leaving Certificates a year before leaving the College. Apply to the Headmistress, The Mary Erskine School for Girls, 70 Queen Street, Edinburgh, 2.

(a) 1958, No award. (b) 1957, Ann M. R. Black.

***Patrick Bursaries.**—Three bursaries of £41 p.a.; tenable in Arts or, with the permission of the Senatus, in pure Science, but restricted to students who require pecuniary aid in obtaining a university education. A preference is given to students entering the University from any secondary school in Ayrshire where a regular course of classical study is provided.

1956, Mary R. Kennedy. 1957, N. G. F. Russell. 1958, A. R. Veitch.

***†Penman Bursary.**—£21 p.a.; tenable in any Faculty, but restricted to students who require pecuniary aid in obtaining a university education. Patrons, the Society for the Benefit of the Sons of the Clergy. Apply to D. G. M'Gregor, W.S., 117 Hanover Street, Edinburgh, by 1st April.

1958, H. G. Kinnell.

***Pringle and Wardrop Bursary.**—£25 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education.

1955, Gladys V. C. Chalmers.

Rackstraw (Marjorie) Bursary.—£25 p.a.; tenable for a full curriculum in any Faculty, except Medicine in which the tenure is four years, but restricted to women who must reside at Masson Hall. A preference is given to students in Medicine. The bursary, which is not expected to be open until 1959, is awarded on the basis of the Entrance Bursary examination; but the Executive Committee of Masson Hall, in conjunction with the Edinburgh Association for the University Education of Women, may use their discretion and take special circumstances into account in making an award. Apply to the Secretary, Mrs D. B. Horn, 8 Pentland Avenue, Edinburgh, 13, by 9th April.

1955, Margaret E. Duncan.

Raining (John) Bursaries.—See Highlands and Islands Education Trust Bursaries.

***Ramsay (Sir Andrew) Bursary.**—£20 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science. Patrons, the Town Council of Edinburgh.

1958, G. R. Henderson.

***Renton Bursary.**—£18 p.a.; tenable in Arts, Medicine, or Science, but restricted to students who require pecuniary aid in obtaining a university education.

1957, K. A. Hay.

Rhind Bursary.—See Caithness (Edinburgh) Association Bursaries.

Entrance Bursaries

Robertson (Archibald) Bursaries.—Two bursaries of about £8 p.a. for 4 years; tenable in any Faculty of a Scottish University, but restricted to natives of Stronsay, Orkney. A preference is given to students who require pecuniary aid in obtaining a university education. Apply, with full information regarding the applicant's qualifications and proposed curriculum, to C. G. Masson & Glennie, Solicitors, 13 Broad Street, Peterhead, Aberdeenshire.

Scott (Sir Walter) Bursary.—See Borderers' (Edinburgh) Association Bursaries.

***Sibbald Bursaries.**—Five bursaries of £30 p.a.; tenable in any Faculty. 1955, Helen H. Watson. 1957, Eileen D. Graham. 1958, C. B. Roberts. 1959, Margaret M. Aiken; I. M. Macfarlane.

***Sibbald Medical Bursary.**—£40 p.a.; tenable in Medicine. 1957, Vacant.

Simson Bursaries.—Bursaries of £100 p.a.; tenable for a full curriculum in Arts (Honours or Ordinary) or in Medicine, but restricted to students who, having passed the Preliminary examination, are entering their first year in Arts or Medicine, and are studying for the ministry or the medical mission service of the Church of Scotland. The examination is in September. Patrons, the Presbytery of Edinburgh. Apply to the Rev. C. A. Smith, M.A., 14 Lee Crescent, Edinburgh, 15, by 15th July.

1958, K. M. Boyd, A. G. S. Walker.

Simson Fowler Bursary.—£10 p.a. for such a period as the Trustees may determine; tenable in Medicine, but restricted to students requiring pecuniary aid in obtaining a university education who are either natives of, or the children of a parent or parents long connected with, the Colinton ward of Edinburgh or the parish of Currie. Patrons, the Simson Fowler Trustees. Apply to Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, 2, by 12th July.

Simson (Frances) Bursary.—See Association (Edinburgh) for the University Education of Women Bursaries.

Stevenson (Louisa) Bursary.—See Association (Edinburgh) for the University Education of Women Bursaries.

Stewart (Duart) (James) Bursary.—£80 p.a. for 3 years; tenable in Arts at any Scottish University, but restricted to natives of the parishes of Callander or Trossachs who propose to study for the M.A. degree. Patrons, the Kirk Sessions of Callander and Trossachs. Apply to D. F. Mackenzie, Solicitor, Commercial Bank Buildings, Callander, Perthshire.

1957, D. S. Macfarlane, B.Sc.

Strang Steel Bursaries.—See Borderers' (Edinburgh) Association Bursaries.

***Thomson Bursaries.**—(a) Five bursaries of £60 p.a., tenable in Medicine; (b) two bursaries of £50 p.a., tenable in Arts or Science (Pure or Applied); and (c) two bursaries of £50 p.a., tenable in Law. The bursaries are awarded on the basis of the Entrance Bursary examination to students who have not previously attended any class in any university qualifying for a degree in Arts, Medicine, or Science. A preference is given to natives of Dumfriesshire and of Edinburgh. The bursaries are not tenable along with any other bursary yielding more than £25 p.a.

1956, A. W. Cowe (c); S. M. Semple (a). 1957, J. L. Christie (a) and G. R. Wilson (b). 1958, Margaret L. Belbin. 1959, R. C. Baptie (b); J. Donald (c).

***†Trotter and Penman Bursary.**—£15 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. Patrons by turns, (a) the heirs of Henry Trotter of Mortonhall; and (b) the heirs of Robert Gordon Gilmour of Craigmillar.

1956, J. Stuart.

Entrance Bursaries

Upper Ward of Lanarkshire Association Bursaries.—See Lanarkshire (Upper Ward of) Association Bursaries.

***Vans Dunlop Bursaries.**—Three bursaries of £100 p.a.; tenable in Medicine. 1954, G. D. Stark. 1956, John A. Phillips. 1958, R. J. Purvis.

Victoria Bursary.—See Clan Mackay Society Bursaries.

Webster and Davidson Mortification for the Blind.—See Faculty of Arts Programme.

***Weir, Jenkins, Hepburn, and Lightbody Bursary.**—£11 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. Patrons, the Town Council of Edinburgh (1st and 2nd presentations); and the heirs of Sir James Campbell, Bart., of Aberuchill (3rd presentation). 1956, J. Brown.

***Welsh (John) Bursaries.**—Eight bursaries of £30 p.a.; four bursaries (*a*), tenable in Arts or, with the permission of the Senatus, in Pure Science, are awarded for proficiency in Mathematics, including Pure Geometry, and four (*b*), tenable in Arts, for proficiency in classical learning, including Latin, Greek, and English. The **Manson (William) Memorial Prize** of £13 is awarded annually to the student entering Arts or Pure Science who is placed highest in the John Welsh Mathematical Bursary List. For (*a*) the examination consists of the papers in Mathematics, together with the additional higher paper in Mathematics in the Entrance Bursary examination; and for (*b*) the papers in English, Latin, and Greek, together with the additional higher papers in one of them or the combined higher paper in Latin and Greek in the same examination.

1955, A. W. B. Taylor (*a*). 1956, Jean M. Osler (*b*). 1957, Ann M. Crawford (*b*). 1958, Margaret A. Weir (*b*), I. M. Morrison (*a*). 1959, P. D. Thomson (*b*); Mary S. MacDonald (*a*).

***Whitelaw Bursaries.**—Three bursaries of £30 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science.

1956, Isobel M. Murray. 1957, F. R. Larkin. 1958, Helen C. Martin.

***Wight, M'Call, and Christie Bursary.**—£12 p.a.; tenable in Arts or, with the permission of the Senatus, in Pure Science, but restricted to students who require pecuniary aid in obtaining a university education. Patrons, the Town Council of Edinburgh.

1957, Elizabeth K. Thomson.

Wood Bursary.—£100 p.a.; tenable for a full curriculum at the Edinburgh Medical School, provided that attendance, progress, and conduct are satisfactory and awarded to students who have shown high proficiency in English and Mathematics and passed a qualifying examination in Latin and Greek held at the Royal College of Physicians, Edinburgh, in the October following a vacancy. Patrons, the Royal College of Physicians, Edinburgh. Apply to the Secretary, Royal College of Physicians, Edinburgh.

1953, Edith Lamont.

Zetland (Earl of) Bursaries 1877.—Three bursaries of £62 p.a. for 3 years, one open for competition each year; tenable in Arts, but restricted to first-year students who were born in Orkney or Zetland or of whom one or both parents were born in, or have been for long connected with, Orkney or Zetland; moreover, candidates either must have been wholly educated in the islands or must not have received any education elsewhere within four years. Patrons, the Earl of Zetland's Bursary Trustees. Apply to Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, 2, by 1st April.

1957, Evelyn B. Rendall.

Zetland (for Women) Bursary.—See Association (Edinburgh) for the University Education of Women Bursaries.

GRADUATION AND MERIT LIST

GRADUATION LISTS

DEGREES CONFERRED IN 1958-59

(For Degrees conferred in 1957-1958 and earlier years, see the UNIVERSITY CALENDAR for previous sessions.)

HONORARY DEGREE OF DOCTOR OF DIVINITY (D.D.)

3rd July 1959

Lampe, The Reverend Professor Geoffrey William Hugo, M.C., M.A., D.D., Professor of Theology, University of Birmingham, since 1953. Dean of the Faculty of Arts, 1955-8, Vice-Principal, 1957, Hon. Canon of Birmingham Cathedral, 1957.

Ryrie, The Reverend Frank, M.A. (Edin.), Church of Scotland Missionary (Bengal), Retired.

Weir, The Reverend Professor Cecil James Mullo, M.A. (Edin.), B.D. (Edin.), D.Phil., Professor of Hebrew and Semitic Languages, University of Glasgow, since 1937, Dean of the Faculty of Divinity, University of Glasgow, from 1951 to 1954.

Wright, The Reverend James, M.A. (Edin.), Minister of the Cairns Church, Stewarton, Warrack Lecturer on Preaching.

HONORARY DEGREE OF DOCTOR OF LAWS (LL.D.)

3rd July 1959

Berkner, Rear-Admiral Lloyd Viel, O.B.E., U.S.N.R., President of the Associated Universities Inc., New York, U.S.A.

Dalling, Sir Thomas, M.A., D.Sc., LL.D., Hon. F.R.C.V.S., F.R.S.E., Veterinary Consultant with the United Nations Food and Agriculture Organisation.

Fell, Honor Bridget, M.A., B.Sc. (Edin.), Ph.D. (Edin.), D.Sc. (Edin.), F.R.S., Director, Strangeways Research Laboratory, Cambridge, since 1929.

Fisher, Professor-Emeritus Matthew George, C.B.E., Q.C., M.A. (Edin.), LL.B. (Edin.), Professor of Civil Law, University of Edinburgh, from 1938 to 1958, Dean of the Faculty of Law from 1943 to 1958.

Gray, Professor-Emeritus Sir Alexander, C.B.E., M.A. (Edin.), LL.D., Professor of Commercial and Political Economy and Mercantile Law, University of Edinburgh, from 1935 to 1956.

Johnson-Gilbert, The Rt. Hon. Sir Ian Anderson, C.B.E., Lord Provost of the City of Edinburgh.

Rees, Sir (James) Frederick, B.A., M.A., Hon. Fellow of Lincoln College, Oxford, Head of Department of Economic History, University of Edinburgh, from 1956 to 1958.

Vallance, John Milne, Writer to the Signet, Edinburgh. (*In absentia*.)

21st July 1959

Adrian, Lord, O.M., M.A., M.D., Hon. D.Sc., Hon. M.D., Hon. LL.D., F.R.S., F.R.C.P., Master of Trinity College, Cambridge, Chancellor of the University of Leicester.

Best, Charles Herbert, C.B.E., B.A., M.A., M.D., Doctor of Medicine, D.Sc., Hon. D.Sc., Hon. Sc.D., LL.D., F.R.S.C., F.R.C.P.(C.), F.R.S., Professor of Physiology and Head of the Department, University of Toronto, since 1929.

Lemieux, Renaud, B.A., M.D., Head of the Department of Medicine, Laval University, Professor of Clinical Medicine, Laval University, Past President of

Graduation Lists

the Canadian Medical Association, President-Elect of the World Medical Association.

Macrae, Angus, M.A., M.B., Ch.B., Hon. M.D., Secretary, British Medical Association, from 1950 to 1958.

Penfield, Wilder Graves, O.M., C.M.G., B.A., M.A., M.D., D.Sc., B.Sc., Litt.B., D.C.L., LL.D., F.R.S.C., F.R.S., Chairman of the Department of Neurology, McGill University, Director of Montreal Neurological Institute.

Thomson, Sir Arthur Peregrine, M.C., M.D., F.R.C.P., Professor of Therapeutics and Dean of the Faculty of Medicine, University of Birmingham.

DEGREE OF DOCTOR OF MEDICINE (M.D.)

with the Titles of the Theses

19th December 1958

Cruickshank, Bruce, Ph.D., Scotland, M.B., Ch.B., 1943. Localisation of tissue antigens with the fluorescent antibody technique: studies on connective tissue, the kidney and anterior pituitary hormones.²

Farquhar, James Watson, Scotland, M.B., Ch.B., 1944. The child of the diabetic woman.²

Gibson, James Blackburn, M.D. (Western Reserve), Scotland, M.B., Ch.B., 1943. The hepatic veins in health and disease.²

Ingram, Ian Malcolm, Scotland, M.B., Ch.B., 1951. Obsessional illness: the natural history in hospital patients.

McDougall, Allan Colin, Scotland, M.B., Ch.B., 1946. Chinese footbinding.

Murphy, Henry Brian Megget, Scotland, M.B., Ch.B., 1938. Culture, society and mental disorder in South-East Asia: a study in the epidemiology of mental disorder. (*In absentia*).²

Riley, Clifford, England, M.B., Ch.B., 1943. The esters of cholesterol: constitution of their fatty acid component in human serum.¹

Roberts, Julian Mervyn, England, M.B., Ch.B., 1947. Prognostic factors in the treatment of depression, with special reference to the use of electro-convulsive therapy.¹

Sutherland, Anne Bryson, Scotland, M.B., Ch.B., 1951. Thermal injury: its effect on nutrition, with special reference to body weight and food intake.

Wilson, Cedric William Malcolm, Scotland, B.Sc., Ph.D., M.B., Ch.B., 1949. The metabolism of histamine and its role in certain pathological processes.¹ (*In absentia*.)

13th July 1959

Carstairs, George Morrison, Scotland, M.A., M.B., Ch.B., 1941. Chronic mental illness: a study of clinical and social factors related to the outcome of patients discharged from mental hospitals.¹ (*In absentia*.)

Edmunds, Patrick Norman, Scotland, B.Sc., M.B., Ch.B., 1947. *Haemophilus influenzae*-like bacilli in the human vagina.¹

McHarg, James Fleming, Scotland, M.B., Ch.B., 1940. A developmental factor in Schilder's disease: a clinico-anatomical study, from the developmental aspect, of three cases of subacute diffuse cerebral sclerosis, with a note about the demyelinating diseases generally, the developmental nervous disorders and the functional psychoses.¹

Powell, David Edward Baden, Wales, M.B., Ch.B., 1952. Studies in the pathology of staphylococcal infections.¹

Scott, Donald Bruce, Australia, M.B., Ch.B., 1948. Epidural analgesia.

Thornton, George Hugh Malcolm, Scotland, M.A. (Oxon), M.B., Ch.B., 1943. The development and application of a test meal technique for the study of gastric function in rats. (*In absentia*.)

¹ Commended for Thesis

² Highly commended for Thesis

Degrees Conferred in 1958-1959

**DEGREE OF DOCTOR OF VETERINARY MEDICINE AND
SURGERY (D.V.M. & S.)**

with the Titles of the Theses

19th December 1958

Dyce, Keith MacFarlane, B.Sc., 1947, M.R.C.V.S. The living anatomy of the digestive tract of the goat: a radiological study of the postnatal changes.

13th July 1959

Barlow, Richard Moyes, Scotland, B.Sc., 1954, M.R.C.V.S. Observations on swayback disease of lambs in South-East Scotland.

DEGREE OF MASTER OF SURGERY (Ch.M.)

with the Titles of the Theses

13th July 1959

Ritchie, Horace David, Scotland, M.A. (Glasg.), B.A. (Cantab), M.B., Ch.B., 1947. Surgical jaundice: an experimental study.¹ (*In absentia*.)

Torrance, Henry Bruce, Scotland, M.B., Ch.B., 1949. A study of certain anatomical and physiological factors concerned in the control of the hepatic circulation.¹

DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

with the Titles of the Theses

Department of Pure Science

2nd July 1959

Dainty, Jack, M.A. (Cantab). Ion and water transport in cells and tissues, chiefly of plants. (*In absentia*.)

Tipper, Charles Frank Howlett, B.Sc., Ph.D. (Bristol). Studies of oxidation and of some reactions of cyclopropane.

13th July 1959

Loraine, John Alexander, M.B., Ch.B., M.R.C.P.Ed., Ph.D. Studies on urinary and serum gonadotrophins.

DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

with the Titles of the Theses

Faculty of Divinity

18th October 1958

Oman, Richard James, A.B. (Minnesota), B.D. (Princeton Theol. Sem.). William Penn: a study in the Quaker doctrine of political authority, as exemplified particularly in his colonial experiment. (*In absentia*.)

Summers, David Fowler, B.A. (Saskatchewan). The Labour Church and allied movements of the late nineteenth and early twentieth centuries. (*In absentia*.)

19th December 1958

Chesson, Francis Small, B.A. (Wake Forest), B.D. (Southern Bapt. Theol. Sem.). The significance of the Resurrection for the apostolic message, with special reference to the apostle Paul. (*In absentia*.)

Rolston, Holmes, B.S. (Davidson), B.D. (Union Theol. Sem., Richmond). The understanding of sin and responsibility in the teaching of John Calvin.

Trost, Theodore Louis, B.A. (Ohio Wesleyan), B.D. (Yale). Philip Schaff's concept of the Church, with special reference to his rôle in the Mercersburg Movement, 1844-1864. (*In absentia*.)

¹ Awarded Gold Medal for Thesis

Graduation Lists

3rd July 1959

Grosc, LaVern Kenneth, B.A., B.D. (Augustana, Illinois). W. M. L. De Wette (1780-1849) as theologian and exegete. (*In absentia.*)

Hull, James Ernest, A.B., B.D. (Southern Methodist). The controversy between John Wesley and the Countess of Huntingdon: its origin, development, and consequences. (*In absentia.*)

Long, George William, A.B. (Wheaton, Illinois), B.D. (Columbia Theol. Sem.), D.D. (Belhaven). Jonathan Edwards, 1703-1758: his theory and practice of evangelism. (*In absentia.*)

Melver, Malcolm Chester, B.A. (Centre, Kentucky), B.D. (Louisville Theol. Sem.), D.D. (Centre, Kentucky). The preaching of Henry Drummond, with special reference to his work among students. (*In absentia.*)

Warne, Donald MacKenzie, B.A. (Toronto). The origin, development and significance of the concept of the remnant in the Old Testament. (*In absentia.*)

13th July 1959

Terpstra, Chester, M.A. (Wheaton, Illinois). David Bogue, D.D., 1750-1825. Pioneer and missionary educator. (*In absentia.*)

Wheeler, John Paul, B.A. (Stetson), B.D. (Southern Bap. Theol. Sem.). The theological justification of the great missionary awakening of the late eighteenth century, with special reference to William Carey. (*In absentia.*)

Faculty of Law

18th October 1958

Moncreiffe, Sir Rupert Iain Kay, Bt., M.A. (Oxon.), LL.B. Origins and background of the law of succession to arms and dignities in Scotland. (*In absentia.*)

13th July 1959

Blair, Leo Charles Lynton, B.L. The legal status of the governmental employee.

Faculty of Medicine

18th October 1958

Smith, Maureen, B.Sc. Metabolic changes following adrenalectomy. (*In absentia.*)

Williams, Holman Eugene, D.V.M. (Toronto), M.Sc. (Wisconsin). Studies on the virus of louping-ill. (*In absentia.*)

19th December 1958

Fletcher, Margaret Janet, B.Sc. (Glasg.). Studies on histaminase.

Forshall, William, A.R.I.C. The metabolism of ascorbic acid in rheumatoid arthritis.

Horton, Eric William, B.Sc., M.B., Ch.B. Polypeptides which stimulate plain muscle. (*In absentia.*)

Stokoe, William Milne, B.Sc. The structure, developmental course and some aspects of the functional significance of the adrenal gland of the sheep.

13th July 1959

Bhuyan, Padmadhar, B.Sc., M.B., B.S. (Calcutta). Studies of organisation in the lung, with particular reference to pulmonary infarction.

Cross, Ronald Bruce, B.Sc., M.B.B.S. (Queensland). Some factors modifying the actions of posterior pituitary hormones on renal function.

Hulland, Thomas John, D.V.M. (Toronto), V.S. (Ontario Vet. Coll.). A study of the skeletal muscles of sheep, with special reference to scrapie disease. (*In absentia.*)

Degrees Conferred in 1958-1959

Ismail, Salomas Hassan, M.B., Ch.B. (Cairo). A histochemical study of the human endometrium and placenta in health and disease. (*In absentia.*)

Khan, Inayat, M.B.B.S. (Punjab). Drugs modifying the action of 5-hydroxy-tryptamine.

Scott, Gordon Ramsay, B.Sc. (Edin.), M.Sc. (Wisconsin). The growth curve parameters of Newcastle disease, Rift Valley fever and Rinderpest viruses. (*In absentia.*)

Stuart, Angus Erskine, M.B., Ch.B. (Glasg.), M.R.C.P.E. Observations on the pathology of the thyroid gland, with special reference to auto-immunity.

Faculty of Arts

18th October 1958

Galloway, Robert William, M.A. Periglacial phenomena in Scotland. (*In absentia.*)

Momin, Mohiuddin Mohammed Ibrahim, M.A. (Bombay). The Mughal contribution to Persian epistolography (from Bābur (1526) to Shāh Jahān (1658)). (*In absentia.*)

19th December 1958

Attar, Najah, L. ès L. (Syria). Abu'l-'Atāhiya; his life and his poetry. (*In absentia.*)

Bird, Mary Evelyn Cameron, M.A. Social change in kinship and marriage among the Yoruba of Western Nigeria.

Mitcham, Peter, M.A. (New Brunswick). The attitude of British travellers to North America between 1790 and 1850. (*In absentia.*)

3rd July 1959

Fiawoo, Dzigbodi Kodzo, B.A. (Cornell), M.A. (Columbia). The influence of contemporary social changes on the magico-religious concepts and organization of the Southern Ewe-speaking people of Ghana. (*In absentia.*)

Scollar, Irwin, B.A. (Lehigh), M.A. (Columbia). The archaeology of the Haut Pays (Belgium); the prehistory of the Haine Valley until the beginning of the Bronze Age.

Shamma, Saleh Hadi El-, M.A. (Cairo). The ethical system underlying the Qur'an. (*In absentia.*)

13th July 1959

Bigland, Evelyn Gordon (*née* McCallum), M.A. Theodore Jouffroy. (*In absentia.*)

Mark, Francis Xavier, M.A. The rise and development of labour movements in the British Caribbean, with particular reference to British Guiana, Jamaica and Trinidad.

Weiland, Hermann-Josef. The story as a creative medium: Joseph Conrad. (*In absentia.*)

Faculty of Science

18th October 1958

Archibald, Andrew Ronald, B.Sc. Studies on the chemistry of protozoa.

Bryce, William Alexander John, A.H.-W.C. The chemical effects of ultrasonic waves.

Dye, Douglas Winton, B.Agr.Sc. (N.Z.). A taxonomic study of the genus *Xanthomonas*.

Macrae, Ronald Macgregor, B.Sc. Studies on the metabolism of bacterial lipid granules. (*In absentia.*)

Miller, William, B.Sc. Irradiation of organic systems with gamma rays. (*In absentia.*)

Smith, Shelagh Mary (*née* Bibby), B.Sc. Some aspects of the igneous and metamorphic geology of Central Skye.

Steel, Colin, B.Sc. Studies of unimolecular reactions. (*In absentia.*)

Graduation Lists

Sturgeon, Robert James, A.H.-W.C. Cereal polysaccharides, with special reference to the hemicelluloses of rye.

Wijeratne, Warusahennedige Vernon Soysa, B.V.Sc. (Ceylon). Growth and structure of the coat in strains of large and small mice.

Wilson, Margaret Dykes, B.Sc. A study of nuclear disintegrations produced by cosmic radiation.

19th December 1958

Bowman, John Christopher, B.Sc. (Reading). Recurrent selection: an experimental study with mice and *Drosophila*.

Burns, John Gordon, B.Sc. Investigation of the boundary layer on a plane surface.

Fairweather, Ian Lawson, B.Sc. Studies relative to the β disintegration of some heavy elements, using a magnetic spectrometer of high collecting power.

Hall, Ronald David, B.Sc. Analytical aspects of the distribution of carbohydrates in barley, malt and derived extracts.

Harrison, David, B.Sc. The growth and behaviour of soil amoebae in a sterile liquid medium.

Hossain, Mosharraf, M.Sc. (Calcutta). Taxonomic studies in the genus *Trifolium*.

Hudson, Robert Michael, B.Sc. (Lond.). Experiments using a Wilson cloud-chamber to investigate the nature of the radiation producing the high-energy scintillations observed in an activated phosphor.

Kibble, Thomas Walter Bannerman, M.A., B.Sc. Topics in quantum field theory: 1. Schwinger's action principle; 2. Dispersion relations for inelastic scattering processes. (*In absentia*.)

Latter, Barrie Dale Hingston, B.Sc. (Sydney). A study of reproductive fitness and quantitative variation in *Drosophila melanogaster*. (*In absentia*.)

Livingston, Harry Robertson, B.Sc. (Glasg.), M.S. (Minnesota). The effect of the substitution of grass silage for roots on the intensity of production on East Lothian farms.

Mackenzie, Donald William Ross., B.Sc. Studies on the biology of pathogenic fungi.

Neale, Roderick Frank, B.Sc. Studies in the meso-benzanthrone series.

Nichol, Kenneth John, B.Sc. Studies in the fluoranthene series.

Nicol, Allan Alexander, A.R.T.C. Investigations of boundary layer phenomena using a new method of observation.

O'Donnell, John Joseph, M.Sc. (N.U.I.). Structural investigations on the water-soluble polysaccharides of green algae.

Sah, Jagdish Prashad, M.Sc. (Lucknow). Study of the neutrons produced by deuteron bombardment of lithium⁷ using the photographic emulsion method. (*In absentia*.)

2nd July 1959

Barr, Leslie Williamson, B.Sc. Applications of radiosotopes to problems in solid state physics. (*In absentia*.)

Cairncross, Iain Macleod, A.H.-W.C. The carbohydrate constituents of the gramineae.

Cattanach, Bruce Macintosh, B.Sc. (Dunelm). The genetical effects of triethylenemelamine in mice.

Faed, Michael James Willoughby, B.Sc. Division and growth relationships in single cells.

Gates, Allen Hazen, B.S. (Louisiana State). Early embryology of the mouse as studied by transplantation of ova. (*In absentia*.)

Gloyne, Ronald Westlake, B.Sc. (Lond.). Studies relating to the influence of topographical features on surface air-flow and incident radiation.

Hussain, Muhammad Altaf, M.Sc. (Punjab, Lahore). The collection of agricultural statistics and the use of data in the United Kingdom and Pakistan: an objective study to explore possibilities of improvement in Pakistan. (*In absentia*.)

Degrees Conferred in 1958-1959

Jack, William Hugh, B.Sc. The structure of the Celtis-Triplochiton Forest Association in Ghana and its effect on management.

Nicolson, Adrian, B.Sc. The molecular structure of galactose-containing polysaccharides of the plant gum and hemicellulose groups.

Slater, John Stirling, B.Sc. Changes in peptide and other non-protein nitrogenous constituents of herbage during conservation.

13th July 1959

Kerr, James Alistair, B.Sc. Reactions of alkyl radicals

Nelson, Robert Livingston, B.Sc. Competitive chlorination of hydrocarbons.

DEGREE OF MASTER OF SCIENCE (M.Sc.)

Department of Pure Science

18th October 1958

Lloyd, Sybil Mary, B.Sc. (Lond.).

Madan, Rose Krishna, M.B., B.S. (Punjab).

2nd July 1959

Macdonald, Donald Charles, M.R.C.V.S.

Rutherford, David, B.Sc.

Watson, Philip John, B.Sc. (*In absentia*.)

Department of Agriculture

2nd July 1959

Thow, Ronald Fleming, B.Sc. (*In absentia*.)

Department of Forestry

19th December 1958

Corbett, William Mackintosh, B.Sc. (*In absentia*.)

DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (M.B., Ch.B.)

Sponsio Academica

19th December 1958

Cartmel, Douglas

Christie, Alexander Barlas

Dickinson, Morag

Dunbar, Allison Christina

Gooderick, Raymond

Graham, Arthur Johnston

Gunewardena, Irangani

Houseley, Michael Anthony, B.Sc.

Jenkins, Edward Burton

Maloney, Charles Fallen McKim

Marriott, John Anthony Sefton

Moffat, Mary Frances

Paley, William George

Peacey, Malcolm Arthur James

Shaw, Edward Alan

Stewart, Kenneth McLaughlan, B.Sc.
(*St. And.*)

Williamson, Margaret Thirl

Wright, Heather Euronwy

13th July 1959

Adam, Elinor Walmsley

Alexander, Alan Crawford Adam

Alexander, James Leonard Stewart

Amatayakul, Kosin

Amu, Victor Bamidele Giwa

Anderton, John Leslie

Archibald, Robert William

Baird, David Tennent, B.A. (Cantab)

Barnard, Eric Edmund

Barr, David George Dryburgh

Bath, Desmond Sackville Gwynne

Berry, Paul William Dyson

Boak, James Livingstone

Boddy, Francis Andrew

Graduation Lists

Bowie, Richard Alexander
 Bradford, Elizabeth Mary Whitehead
 Brock, Samuel Henry
 Buchanan, Edward Greenoak
 Burn, John Callander
 Cameron, William Robert
 Campbell, Dorothy Orma
 Clare, Michael
 Clark, Robert Lindsay
 Cockburn, Forrester
 Coore, Haldane Gladstone, B.Sc.¹
 Cormack, John James Callender
 Craddock, Arthur Bryan
 Crombie, Alexander Leaster
 Crompton, Graham Kenneth
 Dandie, Christine Elizabeth Jean
 Delaney, James William
 Dell, Murray John, B.A., B.Sc. (Cape Town)
 Dellipiani, Alexander William
 Dewar, Mary Elizabeth
 Dougall, Angus James
 Dumbreck, Alexander
 Dundas, Charles Robert
 Ferrer, Harold Peter
 Forsyth, Allan
 Gallagher, Bernadette Agnes
 Galloway, Nicholas Robert, B.A. (Cantab)
 Gibson, Peter Ferrier
 Girdwood, Thomas Grossart
 Goh, Bin Sin
 Gordon, George
 Gordon, Jessie
 Gray, James Allan
 Grieve, Alison Fisher
 Grundy, Michael
 Gunn, Andrew
 Marcus, Alfred Wilson
 Hastewell, Leslie Jeffery, B.Sc., Ph.D. (Dunelm)
 Henderson, Robert Dargue
 Heywood, Brian Furley
 Hindley, Gillian
 Hood, William John Marshall
 Horsburgh, George
 Howarth, Alan Walmsley
 Kershaw, Peter Whaley
 King, Thomas Kwong Chen
 Kinghorn, Mary
 Lamont, Edith McLeod
 Large, Kathleen Gilleen
 Lees, David
 Lees, Lorna Jean
 Lenson, John George
 Livingstone, Alexander George
 Loynds, Peter Allen, B.Sc.
 Lynch, John Michael

McAlpine, Gwendyth Anne
 McCann, Desmond, B.Sc. (Dublin)
 Macdonald, Angus
 MacGregor, Stuart William
 McKendrick, John
 Mackenzie, Eileen Blossom
 McKinnon, Marjory Grace McKenzie
 Mackintosh, Colin Edward
 McLachlan, Maurice Scott French
 MacLachlan, Thomas Kay
 MacLean, Murray Jack
 Mailer, Colin McGregor
 Malone, Charles Michael
 Malone, Desmond Noel Scott
 Maran, Arnold George
 Massarella, George Ralf
 Mellor, Michael James
 Millar, Geoffrey Thomas
 Mitchell, Genevra Mary
 Mulligan, Thomas Osmond
 Mulroy, Ronald
 Murchison, Lilian Elizabeth
 Murray, Kenneth Nisbet
 Murray, Margaret Louise Stewart
 Newton, Barrie
 Panikker, Babu Narayana, M.A.
 Patterson, Shirley Ross
 Pawson, Margaret Elizabeth
 Peden, John Kirkpatrick
 Peters, Janet Anne
 Phillips, Cecil Akinola
 Pollard, Minnie Watson
 Pottinger, Ronald Forbes
 Ramsay, Andrew
 Ramsay, Ian Douglas
 Rangecroft, Ronald George
 Ravenscroft, Alan Keith
 Rebbeck, Patricia Mary
 Redman, John Arthur
 Ricci, Bruno John
 Ritchie, Isobel Anne
 Robb, Iain Walter Percy-
 Rowan, Robert Martin
 Ruckley, Charles Vaughan
 Scruby, Donald Macewan
 Seiler, Edmund Ronald
 Selwyn, Sydney, B.Sc.
 Serpell, Barry William
 Shedden, William Ian Hamilton, B.Sc.
 Simpson, Ann Isabella
 Simpson, Charles Alexander
 Simpson, Michael Menzies
 Sinclair, Robin Daniel Cullen
 Sleet, Rodger Arthur
 Sneddon, Derek John Crawford
 Steele, Richard Thompson
 Stewart, Ronald Edgar

With Honours

Degrees Conferred in 1958-1959

Tejavej (formerly Chuangphanich)	Walker, David Douglas
Anant	Walker, Jean Grierison
Thomson, Ian Copland	Wallace, Joan
Tsang, Georges Kwong Hong	White, William Leslie, B.D.S. (Sydney)
Tulloch, Arthur Matson	Williamson, John
Turnbull, John Gilmore	Wilson, Catherine Dummigan
Turner, Frank Watson	Wood, Kenneth Malcolm
Turner, James Hector, B.Sc. ¹	Wray, Donald George
Udoh, Etim Elijah	Zcalley, Andrew King
Urquhart, Anne Mark	

DEGREE OF BACHELOR OF DENTAL SURGERY (B.D.S.)

Sponsio Academica

19th December 1958

Harper, John Haslam
Walker, Elizabeth Sheila

13th July 1959

Abrahams, Mogamat Igsahn, B.Sc. (Cape Town)	Grieve, William Alexander Aitken
Baillie, Frances Elisabeth	Haddad, Emile Fuad
Brown, Peter Ronald Hay	Khalaf, Zahi Georges, B.A. (Beirut)
Brownlee, James Charles Gordon	Kjoraas, Bjorn Odvar
Calder, Ian David	Kruger, Nicolaas
Davidson, Elspeth Shaw	MacKelvie, Barbara
Douglas, Donald Sutherland	Ness, James
Easson, Marjorie Winifred	Punter, Shirley Florence
Geddes, Dorothy Ann Malcolm	Smart, Ronald Adam
Girdwood, Andrew Hamilton	Thomson, Robert Joseph William
Gould, John Ferguson, M.B., Ch.B.	Wood, Janetta
	Wylie, John McDonald

DEGREE OF BACHELOR OF VETERINARY MEDICINE AND SURGERY (B.V.M. & S.)

19th December 1958

Bewsher, Colin Berkeley	Moody, Peter Warner
Elliott, Jean	Smith, Ian Geoffrey Newlands
Montgomery, John Forbes	Tribe, George William

13th July 1959

Anderson, David Andrew Younger	Lawson, Gordon Hugh Kerr, B.Sc. ¹
Anderson, William George Fyfe	Logan, Ernest Fergus
Booth, James Morley	Lovett, Charles Ian
Care, Anthony Deuchar, M.A. (Cantab), Ph.D. (Leeds)	McGregor, Donald Steven
Cruickshank, Andrew Keith	Marshall, Leslie
Davies, David William	Mathieson, Andrew Ogilvie
Davis, Marjorie Ann ¹	Munro, David
Gordon, Mary Constance Margaret	Nicholson, Graeme Gordon
Gunn, Sydney Dixon	Seymour, Stanley
Harris, Grenville William	Simpson, David Thomas
Hunt, George Edward	Swift, Thomas
Jones, Alan Phillips	Wahler, Saw, B.Sc. (Rangoon)
Ker, John	Watson, Ewen Escombe Bennet
Lake, David Edgar	Watt, John Godsmann

With Honours

Graduation Lists

DEGREE OF BACHELOR OF DIVINITY (B.D.)

3rd July 1959

Anderson, Robert Andrew, M.A. ¹ (<i>In absentia</i>)	Mann, John, B.A. (Queen's, Belfast)
Beaumont, William Jack, M.A. (St. And.)	Morrison, Angus Wilson, M.A. (Oxon)
Brown, Robin Graeme, B.A. (Cantab)	Morton, Robert Colin Maxwell, B.A. (Cantab)
Casebow, Brian Clifford, M.A. (St. And.)	Roy, Alan John, B.Sc.
Douglas, Iain Mackenzie, M.A.	Samuel, Robert Ronald, B.Sc. (Glasg.)
	Simpson, Gordon McDonald, M.A.
	Watt, John Hubert Innes, M.A. ²

DEGREE OF BACHELOR OF EDUCATION (B Ed.)

3rd July 1959

Macnamara, John Theodore, B.A. (N.U.I.) ³
Passakos, Constantine. (<i>In absentia</i> .)
Watson, William Hunter, M.A.

DEGREE OF BACHELOR OF LAWS (LL.B.)

18th October 1958

Crerar, James Drummond, B.A. (Cantab)	Ritchie, James, M.A.
McMichael, Sheila, M.A. (Glasg.)	Stevenson, Alexander Pott, M.A.
	Thomson, Alexander, M.A.

13th July 1959

Barton, John Maclean, M.A.	Lawson, John Patterson, M.A. ⁴
Bell, John Robin Sinclair, B.A. (Oxon). (<i>In absentia</i>)	MacBean, Catherine Margaret
Bland, Roger, M.A. ⁴	McKay, John Alfred Crichton, M.A. ⁴
Carrie, Nicholas John, M.A. ⁴	MacLeod, Donald Ian Kerr, M.A.
Clyde, James John, B.A. (Oxon) ⁵	MacRae, William, M.A.
Cowan, Robert Laidlaw, M.A. ⁴	Milligan, James George, B.A. (Oxon)
Craig, Lorna Muriel, M.A. ⁶	Rintoul, Wilda Alexander, M.A.
Eccles, Alexander Charles William	Russell, Eric Blair, M.A. ⁵
Anderson, B.A. (Cantab)	Sheehan, Albert Vincent, M.A.
Galbraith, William Campbell, B.A. (Cantab) ⁴	Shiach, Gordon Iain Wilson, M.A. ⁴
Henderson, Joan Mary Kavanagh, M.A.	Smith, James Jabez Kessack, M.A.
Keane, Francis Joseph, Ph.L. (Gre- gorian, Rome)	Smith, James Martin, M.A.
Kerr, Alan Thursfield, M.A. ⁴	Stevenson, Louis, M.A.
Knox, Robert, M.A. (Glasg.)	Walker, James Campbell, B.A. (Oxon)
Lawrie, Thomas Macpherson, B.A. (Cantab)	Welsh, James William Halliday, M.A. (St. And.)
	Wilkinson, Alexander Birrell, M.A. (St. And.) ⁵

DEGREE OF BACHELOR OF LAW (B.L.)

18th October 1958

Neill, Gordon James Keir
Tosh, Alastair McDonald, M.A.

¹ With distinction in Old Testament

² With distinction in Systematic Theology

³ With distinction in Education

⁴ With commendation

⁵ With distinction

Degrees Conferred in 1958-1959

13th July 1959

Aitken, George Pattullo Hogg
Bell, Graham Clark
Eaton, Valerie Ann
Geddie, Mary Drummond Sempill
Gilmour, Brian James
McCluskey, Dominic

Mackenzie, Colin Scott
Mennie, William Patrick
Telfer, Elizabeth Halliday (McKinlay)
Wilson, James Irvine
Wilson, Robert Gordon

DEGREE OF MASTER OF ARTS (M.A.)

1. With Honours

18th October 1958

SPANISH WITH GERMAN AS A SECONDARY LANGUAGE

Second Class

Connell, Norman James

19th December 1958

HISTORY

Second Class

Swayne, Elizabeth Jean Gordon

3rd July 1959

CLASSICS

First Class

Roy, James
Wylie, John Victor Crawford

Second Class

Black, Thomas Ronald
Chalmers, Gladys Vera Clark
Collins, Mary
Herring, David
McNeil, David John
Reid, David Ronald
Sich, Juliet Caroline
Sutherland, Ian Robert

Third Class

Mackintosh, Donald Jackson
Sinclair, Hazel Mary

MENTAL PHILOSOPHY

First Class

Campbell, Alastair Vincent
Overend, Raymond George

Second Class

Hope, Vincent McNabb
Poulter, Janet Mary
Ross, Robert Jordan

MATHEMATICS AND NATURAL
PHILOSOPHY

First Class

Cunningham, John
Drummond, Ian Thomas

Eadie, William Templeton
Scott, William Andrew Black

Second Class

Boardman, Margaret Joyce
Falc, Peter John Henry
Fisher, Marion Margaret
Hiorns, Robert William
Murdoch, Eileen
Muzyka, Ann, B.A. (Michigan). (*In absentia*)
Qureshi, Mohammed Abdur Rauf, M.A. (Karachi)
Wolfenden, James Douglas
Wren, Anthony

Third Class

Hayat, Ferkhanda Akhtar, M.A. (Punjab). (*In absentia*)
Mackay, Robert Hutchison
Ryan, Jean

ENGLISH

First Class

Houston, Janetta Margaret Mary
McCluskey, Brian

Second Class

Anderson, Jean Hunter Fairlie
Benigan, Kathleen Dingwall
Burgess, John Edward Richardson
Burnett, Alfred David
Campbell, David Douglas
Campbell, Eileen Eva
Day, Judith Dolores

Graduation Lists

Eadie, John
 Edgar, Robert
 Forbes, Maureen Sommerville
 Fright, Sarah Elizabeth Stella
 Fulton, Robin William Macpherson
 Hunter, Ian George
 Hyde, Susan Cabell
 Ingram, Joan
 Irving, Anne
 Jockel, Elizabeth Alison Ker
 Kemp, David Strachan
 Kilpatrick, Collingwood Glover
 Leach, Angela Mary
 Lewis, Bernice
 McCombes, Norma Laidlaw
 McGarty, Patricia
 Martin, Joyce Minett
 Mathers, Rosalind Malseed
 Millar, Helen Grace Agnes
 Pollock, Samuel
 Roberts, Denise Shirley
 Sandeman, Stella Moyra Stewart (*née* Hill)
 Scantlebury, Judith Margaret
 Sommerville, Thomas Bryce
 Stirling, Robert
 Tarbitt, Brian John
 Taseer, Salma, B.A. (Punjab)
 Thompson, Johanna Wanders
 Thomson, Elinor Marion Cochrane
 Towers, James Dirom. (*In absentia*)
 Warning, Anne-Birgit
 Webb, Ada Janet
 Wood, Alice Rosemary
 Wood, Sheila Lindsay

FRENCH WITH LATIN AS A SECONDARY LANGUAGE

Second Class

Deacon, Elizabeth Beatrice
 Kennedy, Irene Joanna
 Robertson, Robert William Taylor

FRENCH WITH GERMAN AS A SECONDARY LANGUAGE

Second Class

Banks, Leslie
 Browne, Christine Mary
 Cooper, Jane Evelyn
 Mutch, Helen Wood Rennie
 Scott, Margaret McNeill
 Watson, Helen Rose
 Wear, Daniel Burns

FRENCH LANGUAGE AND LITERATURE

Second Class

Buckley, Ruth Heather

Duff, Donald Campbell MacRae
 Malkani, Monique
 Selvidge, Valerie Ann
 Tomlinson, Harry

GERMAN WITH FRENCH AS A SECONDARY LANGUAGE

Second Class

Blair, Anne Buntin
 Dunbar, Gerald Hale
 Easson, Elizabeth Craig
 Gourlay, Elizabeth McRae
 Hill, Mabel
 Kerr, Anne Wood

SPANISH WITH FRENCH AS A SECONDARY LANGUAGE

Second Class

Pons, Lourdes Rosa
 Sykes, Mavis Rosemary

RUSSIAN WITH GERMAN AS A SECONDARY LANGUAGE

Second Class

Melrose, Margaret Wilson
 Wills, Peter Brian

HISTORY

First Class

Budge, Ian

Second Class

Bennett, Brian Cyril
 Buchan, Irene Jamieson
 Cameron, Robert
 Cochrane, Jennifer Margaret
 Dunnett, Evaline Margaret
 Elton, Anne Russell
 Gaddum, Phyllis Laura
 Gulvin, Clifford
 Lyle, Helen Olive
 Macphail, Iain Duncan
 Peck, Thomas Lachlan
 Robertson, William Gray
 Smith, Alexandrina Barber
 Vayid, Muhammad Ahmad Hajee
 Dawoodjee Mamode. (*In absentia*)

Third Class

Moss, Susan

ECONOMIC SCIENCE

First Class

Dunn, Hugh John Ramsay
 Pearce, Peter Hector, B.S.F. (Br. Columbia). (*In absentia*)
 Simpson, David Rae Fisher

Degrees Conferred in 1958-1959

Second Class

Bain, Margaret Lesley
Battson, Gary
Cooper, Nanette
Lumsden, Keith Grant
Nicolson, James Robert
Rodger, Allan Alexander Simpson
Young, Jean Mary Maxwell

GEOGRAPHY

First Class

Niven, Bruce MacKenzie

Second Class

Anderson, Maureen Evelyn
Bould, Stuart Ian
Hopwood, Morag
Lacey, James Binney
Maconochie, Alexander Kennedy
Morrison, Edith Ann Luke
Nash, John
Rankin, Sally Anne
Rogers, Keith Stanley
Ross, Walter Stewart
Simister, Thomas
Slater, Jean Dorothy
Southam, Barbara
Waterston, Alexander Blair
Watson, Nicola Jean

Third Class

Barclay, Archibald Cooper

Gilmour, Ann Weir
Paterson, Ranald James

FINE ART

Second Class

Nicolson, Kathleen

Third Class

McLeod, Deirdre Jean

ARCHÆOLOGY

Second Class

Simpson, Derek Douglas Alexander

ARCHITECTURE

Second Class

McIlveen, Hugh Robert
Nicholson, William James. (*In absentia*)

Third Class

Carswell, Adrian Antony Nicholas

SOCIAL ANTHROPOLOGY WITH HUMAN GEOGRAPHY

Second Class

Asad, Talal
Butcher, David Alan Pallant

13th July 1959

ECONOMIC SCIENCE

Second Class

Lloyd, Sheila Minto
Morris, Vera Elizabeth

Honours after Graduation

The following Graduates have been admitted to Honours:—

3rd July 1959

ENGLISH

Second Class

Walker, Alistair Douglas, M.A.

GERMAN WITH FRENCH AS A SECONDARY LANGUAGE

Second Class

Amos, Margaret Janette, M.A.

Graduation Lists

2. Ordinary Degree

18th October 1958

Aitchison, Elizabeth Anne	McArdle, Elizabeth Jean
Anderson, Christine Munro	<i>absentiā</i>)
Anowi, John Obiagi	MacAulay, Henrietta Margaret
Barker, James Martin	McCrae, Jean Helen
Beaton, Donald	McCue, James Connerton
Brown, Ann Stanley	MacDonald, Morag Isobel
Brown, Susan Deirdre Olive	MacDougall, Margaret Anne
Brown, Vanessa	McFadyen, Mary Duncan Thomson
Buchan, Katherine Janet	Mackay, Seonaid
Cameron, John Campbell	Mackenzie, Alison Margaret
Cant, Thomas Millar	MacKenzie, Ann
Cherrie, Thomas Sneddon	McNeill, Jane Barclay
Chisholm, Dennis Alexander Grieve,	Munro, Jennifer Kathleen
B.Sc.	Perry, Elizabeth Anne (<i>née</i> Orrell)
Chrosicka, Kalina Jadwiga	Ramsay, Agnes Laird
Craig, Rose Lorraine	Ritchie, Charles John. (<i>In absentiā</i>)
Docherty, Joyce Evelyn Jessie	Scanlon, James
Eyoma, Eyoma Ita	Smith, Irene
Falconer, Mary Helen	Smith, Margaret Grant
Forrester, Ian Lawrie	Smith, Ronald John
Foster, William	Sneddon, Agnes Kelly
Franklin, Arthur	Stewart, Margaret Ann
Gillon, Thomas	Stirrat, Minnie Britton
Guthrie, Mary Elizabeth	Sutherland, James
Henderson, Lindsay Alice	Swanson, Margaret Budge
Heslop, Judith	Templeton, Margaret Anita
King, Anne MacGregor	Wallis, Ailsa Elizabeth Ransome
	Wilson, Olive Catherine Scougall

19th December 1959

Cooper, Anne Christine	Elizabeth Lawrence, Hepburn Kennedy
(<i>née</i> Boyd)	

3rd July 1959

Adams, Isabella Summers	Burns, Norman Graeme
Adamson, Margaret Ann	Carnegie, Valerie Nan
Amos, Agnes Hope	Carwin, Patricia Margaret
Anderson, Ruth Hilda Catherine	Cavanagh, Esther Kilkie
Andrew, John	Chisholm, Marion Elspeth
Annan, William Robin Brian	Clarke, Anne Felicity
Ashworth, Susan Dorothy	Coggan, Dorothy Ann
Ballantyne, Stella Appelina	Colman, Frances Ann
Barnett, Maurice. (<i>In absentiā</i>)	Coutie, Dorothy Elspeth
Barrie, Thomas Brown	Crawford, Iain Neil
Bauld, Elizabeth	Crowe, Vivien Jean
Beaton, Kenneth Iain	Dickinson, Elizabeth Edina
Bell, Margaret	Dickson, Eleanor Mary Stewart
Blair, Anne Patricia Katherine	Doig, Lucienne Jeanne Cameron
Bloch, Angelina Margaret Elizabeth	Drever, Elsie Marie
Boag, William George Fowler	Elgey, Judith Mary
Bowman, Anne	Fleming, Archibald Macdonald
Breslin, William	Fordyce, Fiona Maclean
Brooke, Alison Mary	Fotheringham, Kenneth Graham
Brown, Gordon Richardson	Fyall, Janice Wilson
Bruce, Jean MacIntyre	Gilbertson, Rognvald Michael Tom
Burns, David Murray	Gilfillan, Agnes Aitken

Degrees Conferred in 1958-1959

<p>Grant, Linda Ann Gray, Uiga Mackenzie Gregory, Julia Ochs Gunn, Ragnild Hastie, Margaret Mary Henderson, Keith Howe, Alexandra Joan Hughes, Elizabeth Joan Hunter, Sonia Marie Illand, Mary Johnstone, David Cyril Marvin Jones, Joseph David Fawcett Kelly, Frances Kerr, Elizabeth Elsimac Davina Sharp Khong, Tran-Quang Thuan Tri- Kouyoumdjian, Nadine Anne Kowalska, Jane (<i>née</i> Adams) Lawrence, Maureen Marcia Lind, Anna Gardiner Lochrie, Agnes Cochrane Lowenthal, Ruth Rosenberg MacDonald, Elizabeth Macdonald, Janet Eva McEwan, Jean Anderson McGhee, George MacGillivray, Evan McNally, George MacIntyre, Isabel Montgomerie Mackay, Rosalie Ann MacLennan, Donald John Macleod, Donald Stewart McMartin, Pauline Ann McNay, Mary McMillan Marshall, Rosalind Kay Millar, Moira Wilson Mooney, Helen Goulder Morrison, Alexander Campbell Morrison, John Muir, Katherine Gardner Pow Murray, Elizabeth Margaret Palmer, Rebecca Fraser Passmore, Humphrey John Pongspayuha, Vanbhen</p>	<p>Proctor, Winifred Anne Rae, Aline Hart Rae, Isobel Seth Ramsay, James Patterson Redpath, Elcanor Euphemia Inglis Robb, Sheila Milne Robb, Suzanne Gaylor Robson, John Stuart Rowe, Bridget Millicent Roy, Alan John, B.Sc., B.D. Scollay, Dorothy Jean Scott, Fiona Kathleen Simpson, Margaret Jane Sinclair, Marjorie Singh, Minnie Chand Rawley Pershad- Smellic, Anne Elizabeth Smith, Agnes Janet Steele, Elizabeth Mary Hunter Steele, John Hunter Stungo, David Murray. (<i>In absentia</i>) Sutherland, Margaret Cecilia Sutherland, Mary Barbara Jesset Sweeney, John Cornelius Taylor, Louise Rietzler Taylor, Peter Cranbourne Tennant, Frances Elizabeth Tice, Sally Isobel Tod, Morag Alison Torrance, Marjorie Currie Warhurst, Cynthia Warne, Peter Warren, Elizabeth Ann Watson, Alexander Beaumont Watson, Helen Watson, Sheila Sanderson Williamson, William Willox, James Wilson, Jane Alison Gilmour Wilson, Sadie Nisbet Woodward, Virginia Hafren Wright, January Westland Yule, Mary</p>
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13th July 1959

<p>Allen, Leon Richard Bennett, David Andrew Brown, Mavis Eleanor Cairns, Gordon McLean Cowe, Alan Wilson Davidson, James Gilbert Edwards, Robin Anthony Gilmour, John Andrew George Goodburn, William Milne Marcus, David Traill Howie, James Balfour Hurst, Frederick Ross. (<i>In absentia</i>)</p>	<p>Johnstone, David Alexander. (<i>In absentia</i>) MacBeth, Duncan Ian McIldowie, James Robert McKunc, Ronald McTaggart, Neil Montgomery, Michael George Robertson, Alastair Scott Smith, Alexander Ross Smith, William Donald Nial Thomson, John McLean</p>
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Graduation Lists

DEGREE OF BACHELOR OF COMMERCE (B.Com.)

18th October 1958

Campbell, John Crichton, M.A. (*In absentia*) Duncan, Douglas Wilson, M.A.
Davies, Victor Seymour, M.A. Hannah, Alexander. (*In absentia*)
McBeth, Alexander Wood

3rd July 1959

Black, Peter Wilson Learmonth, Robert, M.A.
Bollins, David John McGhec, George, M.A.
David, George Alkibiades Pole, James Walter, M.A.
Dinnie, Albert John Poonawala, Mustensir Abbasbhoy,
Dunn, Hugh John Ramsay, M.A. B.A. (Poona)
Greig, Robert Moncrieff, M.A. Speir, Eileen Dorothy Gray, M.A.
Henderson, Keith, M.A. Wallace, George McLeod. (*In absentia*)
Kelly, Laurence Alexander, M.A.

DEGREE OF BACHELOR OF SCIENCE (B.Sc.)

Department of Pure Science

2nd July 1959

1. With Honours

ANATOMY

First Class

Brooks, Valeric Anne
Shearman, David John Crymble

BIOCHEMISTRY

Second Class

Harris, Brighid Evelyn

Third Class

Finnegan, Veronica Mary

BOTANY

Second Class

Bruce, Margaret Elizabeth
Clark, Elaine
Knox, Robert Bruce
Marshall, William

CHEMISTRY

First Class

Duncan, Peter Moncrieff
Matheson, Andrew James
Metcalf, Eileen Lodge
Neylan, David
O'Malley, Thomas John
Yonge, Robin Lennox

Second Class

Allsopp, John Thomas
Beattie, Mary Helen
Campbell, George Brotherson
Clarke, John Joseph

Cleland, Dorothy Helen

Conacher, Philip

Gray, Michael Alexander Howat

Hagopian, Alan Krikor Edwin

Hall, Elizabeth Miller Lawrie

Inglis, George Ronald

Irving, William John

Jones, Theodore Harold Douglas

McLellan, Robert

McLintock, Iain Scott

Manson, Joyce Helen Campbell

Mathewson, Harald David

Mercer, Graham Allison

Oliver, William Alexander

Phillips, Frederick Ian

Rennilson, Sheila Elizabeth Wardlaw

Shannon, Kathleen

Stewart, John Corbet

Vass, John David Ritchie

Third Class

Doyle, Martin

Elliott, Margaret Wreford

Hogg, William Harkes

Johnston, Ronald Martin

GENETICS

Second Class

Goldberg, Pearl

GEOLOGY

First Class

Dalziel, Ian William Drummond
Miller, Marjorie Doig

Degrees Conferred in 1958-1959

Second Class

Benfield, Anthony Charles
Ritchie, Alexander

Third Class

Montgomery, David

MATHEMATICAL PHYSICS

Second Class

McEwan, John

MATHEMATICAL SCIENCE

Second Class

Dingwall, Iain Chisholm
Kelly, Ann
McDonald, Andrew

Third Class

Dryburgh, James Brown
Millar, Alexander
Warren, Michael Douglas

PHARMACOLOGY

Second Class

Hamilton, John Thomas

Third Class

Main, Ian Harvey Morgan
Tella, Ayodele

PHYSICS

First Class

Bell, William Wallace, M.A.
Dougal, Richard Crombie
Hart, Stewart
Mackie, Ronald David Lessels
Norbury, John Richard
Rae, Alastair Ian Maxwell

Second Class

Adamson, Daniel Welsh
Anderson, James Mann

Morrison, Hugh MacGregor
Muir, Ian David
Robertson, Archibald Kenneth

Third Class

Barry, Bryan Edward
Black, William Ross
Blackie, James Robertson
Hinson, James Denis
Kerr, James Douglas
Mabon, Stuart Proven
Sinclair, Ian Paterson

PHYSICAL SCIENCE PHYSICS WITH GEOLOGY

Second Class

Masterton, William David

Third Class

Ridgway, Malcolm George

PHYSIOLOGY

First Class

Donaldson, Iain Malcolm Lane
George, Michael

Second Class

Graham, Peter
Hedley, Robert Norman
McDonald, Alastair Hugh
Proudfoot, Alexander Thompson

PSYCHOLOGY

Third Class

Schalit, Benjamin

ZOOLOGY

Second Class

Currie, Cicely Margaret
Ewing, Arthur Watson
Smith, Ann Euphemia

13th July 1959

BACTERIOLOGY

Second Class

Philp, George, M.B.,-Ch.B.

Honours after Graduation

The following Graduates have been admitted to Honours:—

2nd July 1959

GEOLOGY

Third Class

Sutherland, Robertson Fergus, B.Sc.

Graduation Lists

PSYCHOLOGY

Second Class

Cohen, Ronald Louis, B.Sc.

13th July 1959

BACTERIOLOGY

Second Class

Somerville, Elspeth Agnes, B.Sc.

2. Ordinary Degree

18th October 1958

Baker, Susan Elaine Thorne-
Bunney, Léonie Maxwell
Burns, David Guthrie
Corbishley, Margaret Helena
Cornish, Gordon Henry
Cunningham, Isabel
Farquhar, Evelyn Macdonald
Gebbie, Colin James

Hardie, George Scott
Hunt, George Patrick
Larkin, Neil Anderson
Manson, James MacClelland
Miller, Ronald Andrew Baird
Stewart, Alastair Iain Rankine
Washington, Randall John

19th December 1958

Cumming, Robert Shaw

2nd July 1959

Allan, Mary Murphy McDonald
Broomfield, Patricia
Brown, Mabeth
Campbell, Kenneth McKenzie
Crawford, Norman Anderson
Douglas, David Graham
Downie, John Thomas
Edwards, Gerald George
Flynn, Martin Francis
Forshall, Jean Morag
Fortune, Rutherford Grant
Fulton, Janet Motion
Godfrey, Evelyn
Hart, Sheila Isabel Bayliss
Henderson, Sonia Emma Julia
Justice, David Brian
Kingham, Mary Lindsay
McCall, Frank Boyes

McKendrick, Marjorie Margaret
Ethel
McLaren, Peter
McLaren, Stewart Forbes
McWilliam, Shirley Ann
More, Iris Huntingford
Moss, George Terrey
Nicholson, Robin Tormod
O'Brien, Keith Michael Patrick
Pollitt, Vivian
Proctor, Richard William
Reid, Robert Armour
Ross, Iain Caithness
Seeyave, Marie François Michel-Ange
Stephen, Ian Gordon
Thomson, Janette Fulton
Watt, Dorothy Christine
Williamson, Thomas
Wortley, Anne

13th July 1959

Dunn, Patricia Anne
Parry, Michael

Degrees Conferred in 1958-1959

Department of Engineering

1. With Honours

2nd July 1959

CIVIL ENGINEERING

First Class

Fairbairn, Daniel Rosic, B.Sc.
Gunn, James Forsyth Grimmond

Second Class

Clark, David Jeffrey
Davidson, Ronald

MECHANICAL ENGINEERING

First Class

Garg, Suresh Chandra, B.Sc. (Delhi)

Second Class

Bonavia, Peter Cator

Liebing, Alan Paul
Seed, Austin Richard
Ward, Inglis Colven

ELECTRICAL ENGINEERING

First Class

Montgomery, George Richardson
Nicolson, Alexander Murray
Wilson, John Gibb

Second Class

Sarson, William Charles Turner
Wallace, David Ross Elliott

2. Ordinary Degree

18th October 1958

CIVIL ENGINEERING

Crabbe, James Dickson
Field, Harborough Bruce
Harkness, David Thomas

Herd, Charles Anderson Peden
Martin, Colin Bruce
Miller, Roger Ogilvy Stewart
Naqvi, Syed Rashid Hassan, B.A.
(Punjab)

2nd July 1959

CIVIL ENGINEERING

Bovill, David Ian Norman
Johnston, James Francis Halcro-
Khan, Siddiq Yar, B.Sc. (Osmania)
Millar, William Kemp
Mooney, William
Sidhu, Sarjit Singh
Sutherland, Robert Clifford

McAndrew, William
Reid, Ian William
Saxena, Ramesh Behari Lal, B.Sc.
(Delhi). (*In absentia*)
Singh, Kanta Prasad, B.Sc. (Bihar)

MECHANICAL ENGINEERING

Addison, Richard Stewart
Biswal, Jujesti Chandra, B.Sc. (Agra)
Crombie, Robert Merrilees Allan
Duho, Hubert Evans Kofi
Dummer, Christopher George
Lassey, Arthur Odoye

ELECTRICAL ENGINEERING

Byars, William Alexander
Dunbar, Robin Malcolm
Easton, James
Fekete, Andrew Gabor
Mort, Colin James
Nicol, William McLean
Reid, James
Wedderspoon, Hamish Bayne
Wilson, Francis Thomson

Department of Mining

1. With Honours

2nd July 1959

First Class

Leckie, John
Smith, Gordon MacEwen

Second Class

McFarlane, James
Moore, Edward
Sloss, Ian Stuart

Graduation Lists

2. Ordinary Degree

2nd July 1959

Duncan, Ian Thomas

Department of Technical Chemistry

Ordinary Degree

2nd July 1959

Greczek, Janusz Juliusz

Department of Chemical Technology

1. With Honours

2nd July 1959

First Class

Brangwin, Frank

Smith, James Hunter

Stewart, Gordon

Second Class

Mitchell, Alan Penman Thomson

2. Ordinary Degree

2nd July 1959

Banyard, William

Dickson, David Alexander

Jardine, Robert Alexander

Pearce, James William

Department of Agriculture

1. With Honours

2nd July 1959

Honours after Graduation

The following Graduate has been admitted to Honours:-

ANIMAL HUSBANDRY

First Class

Russel, Angus James Forrest, B.Sc.

Ordinary Degree

2nd July 1959

Caird, David

Campbell, Arthur James

Davidson, John Cameron

Fraser, Kenneth William

Frigaard, Iver Begg

Manson, John Mitchell

Miller, Alastair Robert John Dunlop

Department of Forestry

1. With Honours

Honours after Graduation

18th October 1958

The following Graduates have been admitted to Honours:—

Second Class

Jenkin, Richard Norman, B.Sc.

Wilkinson, Ian, B.Sc.

Diplomas and Certificates

2. Ordinary Degree

18th October 1958

Amissah, Joseph Brookman-
John, Charles Augustus
Omer, Abdel Razag El Jack

Ross, George Kirkwood. (*In absentia*)
Ross, William Gay

2nd July 1959

Allison, Michael James
Badi, Kamal Hassan
Campbell, Duncan
Charity, William David
Connor, Francis
Cumberland, John
Gassoma, Mohammed Saeed Suliman

Horne, Alasdair Iain Dalgleish
Karkanis, Antoun George, B.Sc.
(Alexandria)
Malhotra, Raghunandan, B.S. (Pun-
jab). (*In absentia*)
Mohamed, Ibrahim Gadalla
Rickford, Edward Noel. (*In absentia*)

DEGREE OF BACHELOR OF MUSIC (B.Mus.)

18th October 1958

Butter, Bridget Hope (*née* Younger).
(*In absentia*)
Cooper, Patricia Ann

Kay, Margaret Jack Balfour
Rutherford, Heather Katharine Swan-
son

3rd July 1959

Brydon, Roderick George Paterson
Melville, Mairi

DIPLOMAS AND CERTIFICATES

FACULTY OF MEDICINE

DIPLOMA IN MEDICAL RADIODIAGNOSIS

(Awarded 15th October 1958)

Dick, Andrew, M.B., Ch.B.
Meikle, John Archibald King, M.B., Ch.B.
Palmer, James Hugh, M.B., Ch.B. (Aberd.)

DIPLOMA IN MEDICAL RADIOTHERAPY

(Awarded 15th October 1958)

Macdonald, Hugh, M.B., Ch.B.
Sandeman, Thomas Fraser, M.B., Ch.B.

DIPLOMA IN PSYCHIATRY

(Awarded 15th October 1958)

Imlah, Norman William, M.B., Ch.B.
Sutherland, Isabel Frances, M.B., Ch.B.

(Awarded 13th May 1959)

Gieben, Abraham Herman Cornelius Sinclair-, M.B., Ch.B.

DIPLOMA IN PUBLIC HEALTH

(Awarded 13th July 1959)

Anderson, Andrew McInnes, M.B., Ch.B.
Anderson, Anne Johnston, M.B., Ch.B.
Behan, Thomas Gerrard, L., L.M.R.C.P., L., L.M.R.C.S. (Ireland)

Graduation Lists

Bernard-La Pommeray, Gaston Marie Adolphe Henry, M.D. (Bordeaux)
James, Cecil Herbert, M.R.C.S. (Eng.), L.R.C.P. (Lond.)
Kyaruzi, Vedast Kyalakishaija, L.M.S. (Makerere Univ. Coll.)
Laufer, Walter Ernst, M.B., Ch.B. (Cape Town)
MacDougall, John Adams, M.B., Ch.B. (Glasg.)
Natkanski, Marian Feliks, Med.Dip. (Warsaw)
Nzegwu, Gibson Samuel Chieka, L.R.C.P. (Edin.), L.R.C.S. (Edin.), L.R.F.P.S. (Glasg.)
Oliver, John, M.B., Ch.B.
Quain, Sheila Grace, M.B., Ch.B. (Manc.)
Ralph, Ian Fraser, M.B., Ch.B. (Aberd.)
Watt, Alexander, M.B., Ch.B.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE

(Awarded 13th May 1959)

Azam, Muhammad Fakhrul, M.B., B.S. (Dacca)
Bedi, Khushbir Singh, M.B., B.S. (Rajputana)
Datta, Susanta Kumar, M.B., B.S. (Gauhati)
Inyang, Ekpo Etim, M.R.C.S. (Eng.), L.R.C.P. (Lond.), M.B., B.S. (Lond.)
Irvine, Geoffrey Christopher, M.B., Ch.B.
Krishna Das, Kottaram Venkatachala Sarma, B.Sc., M.B., B.S. (Travancore)
Mahuli, Madhusudan Shrinivas, M.B., B.S. (Bombay)
Mittra, Brajjeshwar, M.B., B.S. (Agra)
Ogston, Derek, M.B., Ch.B. (Aberd.)
Purushothaman, Nanu Kuttymenon, M.B., B.S. (Madras)

DIPLOMA IN TROPICAL VETERINARY MEDICINE

(Awarded 15th October 1958)

Mehanni, Saad, Dip.Vet.Sc. (Khartoum)

(Awarded 13th July 1959)

Browne, Vernon Anthony Dennison, B.Sc., M.R.C.V.S.
Chong, Sip Ngow, B.Sc., M.R.C.V.S.
Halpin, Francis Brendan, M.R.C.V.S.
Lal, Munshi, G.B.V.C. (Patna), B.V.Sc. & A.H. (Agra)
Menard, Fernand John Robert Reynolds, M.R.C.V.S.
Noble, Neil Maclean, M.R.C.V.S.
Paine, Gordon David, M.R.C.V.S.
Parker, Francis Johnson, M.R.C.V.S.
Peritz, Franz Joseph, M.R.C.V.S.

DIPLOMA IN VETERINARY STATE MEDICINE

(Awarded 13th July 1959)

Fraser, Donald Gordon, B.Sc., M.R.C.V.S.

CERTIFICATE IN MEDICAL ILLUSTRATION

(Awarded 13th July 1959)

Benstead, Mary Marigold
Harris, Thomas Donald

FACULTY OF ARTS
DIPLOMA IN EDUCATION

(Awarded 18th October 1958)

Casciani, Joseph William, M.A. (St. And.)

Miller, Allen Alexander, M.A.

Wilson, William John Tod, M.A.

(Awarded 3rd July 1959)

- | | |
|---|---|
| Adamson, Duncan, M.A. | McIntyre, Donald Ian, M.A. |
| Allan, Margaret Somervale, M.A. | MacLaren, Marion Cadzow, B.Sc. (St. And.) |
| Allan, Thomas, M.A. | McMichael, Paquita Mary Joanna (<i>née</i> Florey), M.A. |
| Anowi, John Obiagi, M.A. | Macpherson, Ian George, B.Sc. (St. And.) |
| Barker, James Martin, M.A. | Main, Isobel Georgina Beaumont, M.A. |
| Blackie, Elspeth, M.A. | Marshall, Doreen Winifred, M.A. |
| Bosomworth, Elizabeth Fernie, M.A. | Martin, Elizabeth Ramsay, B.Sc. |
| Brown, Robert Iain Froude, M.A. (St. And.) | Middleton, Peter James, M.A. |
| Brown, William Kenneth Froude, M.A. | Nairn, David McCall, M.A. |
| Chisholm, Dennis Alexander Grieve, M.A., B.Sc. | Napier, William Edward, M.A. |
| Culbertson, Thomas Nicoll, M.A. (St. And.), LL.B. | Oji, Nathaniel Okoro, M.A. (St. And.) |
| Davidson, John Bridson Cauldwell, M.A. | O'Loan, John, M.A. |
| Dick, William Milner, M.A. | Paulin, Alexander, M.A. |
| Dickson, Anne Campbell, M.A. | Pennie, Isabella Drysdale, M.A. |
| Dixon, Charles Harwood, B.Sc., B.D. (St. And.) | Petrie, John Fyvie, M.A. (St. And.) |
| Douglas, James, B.Sc. | Proudfoot, George Richard, B.A. (Oxon) |
| Doyle, John Francis, M.A. | Roberts, Winston Stuart, M.A. |
| Edwards, Ruth Elspeth, M.A. | Robertson, Alfred, M.A. |
| Eluwa, Gabriel Ihie Chinenye, M.A. (St. And.) | Robson, Celia Myrtle, M.A. |
| Ferrari, Renato Louis George, M.A. | Robson, Ian William, M.A. |
| Findlay, Elizabeth-Ann Ellis, M.A. | Schreiber, Hannelore Katharina |
| Gordon, Ian Livingstone, M.A. (Aberd.) | Scott, Francis Duncan, M.A. (St. And.) |
| Guthrie, Charles John, M.A. (St. And.) | Scott, George Purves, M.A. |
| Henderson, Lindsay Alice, M.A. | Sharples, Peter John, M.A. (St. And.) |
| Hosack, Patricia Marie, B.A. (Western Ont.) | Shaughnessy, Patricia France Elise, M.A. |
| Hughes, Harold Alfred William, B.A. (Cantab) | Stewart, Alasdair McIntosh, M.A. |
| Johnstone, Annie Buchanan, M.A. | Stewart, Alastair Iain Rankine, B.Sc. |
| Kazi, Muhammad Inamullah, B.Sc. (Punjab) | Strang, Heather Robertson, M.A. |
| Lamont, Ann Patricia, M.A. (Aberd.) | Sturrock, Margaret Eileen Monro, M.A. |
| Lawrence, Hepburn Kennedy, M.A. | Sutherland, James, M.A. |
| Linton, John Bisland Grant, M.A. | Taylor, Daniel Colin, B.Sc. (St. And.) |
| Livingstone, Sheena Elizabeth Anton, M.A. | Taylor, Morag Christine, M.A. |
| Lothian, Norman Bruce, M.A. | Walker, Lindsey Matheson, M.A. (St. And.) |
| Louden, Richard Cameron, M.A. | Watson, Sandra Margaret Moncrieff, M.A. |
| McAlister, Berra Janette, M.A. | Watt, Evelyn Sinclair, M.A. (St. And.) |
| McCue, James Connerton, M.A. | Williamson, Gordon Hunter, M.A. |
| McFeat, John McLaren, M.A. (St. And.) | Wilson, Rachel Marion Brunton, M.A. (St. And.) |
| | Wright, Marjorie Kathleen, M.A. |

Graduation Lists

CERTIFICATE IN EDUCATIONAL STUDIES

(Awarded 3rd July 1959)

Owusu, Henry Kissi
Singh, Chaturgun Bharat
Solomon, John Lionel

DIPLOMA IN SOCIAL STUDY

(Awarded 18th October 1958)

Bloom, Martin, B.A. (Mich.)	Jardine, Anne Bertram, M.A.
Bremner, Evelyn May, M.A.	McCabe, Isabel Mary, M.A.
Forgan, Isabel Colville, M.A. (St. And.)	Park, Alison Grace Carlyle, M.A.
Hackett, Caroline Mary, M.A.	Proudfoot, Joyce Elizabeth, M.A.
Harvey, Thomas Colin, M.A. (Oxon)	Stewart, Fiona Ballantyne, M.A.
Jameson, Stella St. Clair, M.A. (St. And.)	Wood, Audrey Mearns, M.A.

(Awarded 19th December 1958)

Macaulay, Heather, M.A.
Smith, Heather Mary Graham, M.A. (St. And.)

(Awarded 3rd July 1959)

Jardine, Margaret Jane, M.A.
Swinton, Elspeth Gillian, M.A. (St. And.)
Townley, Charles Robert, B.A. (Wales)

CERTIFICATE IN SOCIAL STUDY

(Awarded 18th October 1958)

Davidson, Christine Dunlop, M.A.	Page, Jennifer Helen, M.A.
Harvey, Helen Ralston	Wilson, Ruth Ellen (<i>née</i> Anderson)

(Awarded 19th December 1958)

Campbell, Heather Anne
Richardson, Marion Morrison Thomson, M.A.

(Awarded 3rd July 1959)

Baraclough, Joan	Nye, Judith
Campbell, Angela Mary Burdett	Potter, Alison Kathleen Harvey
Close, Susan Bevell	Prior, Margaret Everill
Dawrant, Jean Margaret	Ritchie, Iain Thomson
Hines, Kathryn Judith	Sheard, Ann Mary
Macqueen, Julie-Ann	Tadevossian, Protima (<i>née</i> Gupta)
Milligan, Alison Janet	

CERTIFICATE IN PSYCHIATRIC SOCIAL WORK

(Awarded 18th October 1958)

Chesterton, Myrtle, B.Com. (Birm.)	Sheldon, Elizabeth Amelia
McCormack, John	Weihl, Hannah, B.A. (Jerusalem)
McCulloch, James Wallace	Whittington, Kathleen Mary, B.A.
Rosenlund, Liv Elisabeth	(Lond.)
Ross, Eva, B.Com. (Birm.)	

Diplomas and Certificates

CERTIFICATE IN MEDICAL SOCIAL WORK

(Awarded 18th October 1958)

Baird, Catherine Mary, M.A.	Jones, Brenda Marguerita, B.Soc.Sc.
Burns, Josephine (<i>née</i> Dunthorne)	(Birm.)
Carrie, Effie Gordon-, M.A. (Oxon)	Lane, Judith Mary, B.A. (Oxon)
Carruthers, Elizabeth, M.A.	Macklam, Brenda Margaret, B.A.
Hewer, Elizabeth Anne, M.A.	(Lond.)
	Manknell, Shirley, M.A. (St. And.)

CERTIFICATE FOR NURSE TUTORS

(Awarded 18th October 1958)

Shinie, Muriel Stewart Hunter

(Awarded 3rd July 1959)

NURSE TUTORS

Doku, Samuel Kwaku
Gumley, Catherine Jane Grey
Reid, Isabella Thomson Wilson

NURSE ADMINISTRATOR

Marsh, Nora

DIPLOMA IN ENGLISH STUDIES

(Awarded 3rd July 1959)

Fleck, Paul Duncan, M.A. (Western Ontario)	Huda, Nurul, M.A. (Patna)
Goede, William Junior, B.A. (Wisconsin)	Keith, Sara, M.A. (Colorado), B.S. (Denver)
Hillocks, George, B.A. (Wooster), M.A. (Western Reserve)	Shively, Suzanne, B.A. (Kentucky)

DIPLOMA IN PALÆOGRAPHY AND MANUSCRIPT STUDIES

(Awarded 3rd July 1959)

Finlayson, Charles Pringle, M.A.
Roberts, Edward Frederick Denis, B.A., Ph.D. (Queen's, Belfast)

DIPLOMA IN SOCIAL ANTHROPOLOGY

(Awarded 3rd July 1959)

Khong, Tran-Quang Thuan Tri-, M.A.	Uddin, Syed Mobinuddinraz, M.A.
King, Anne Villiers, M.A.	(Patna)
O'Neill, Carl William, A.B. (Colorado)	

DIPLOMA IN ACTUARIAL MATHEMATICS

(Awarded 3rd July 1959)

Pappin, David Frederick, M.A.
Raymond, Hugh William, M.A.

CERTIFICATE IN PUBLIC ADMINISTRATION

(Awarded 3rd July 1959)

Coventry, Ian William	Payne, Frank Russell
Cumming, Jack Smith	Sloan, William
Gardiner, James Russell	

Graduation Lists

DIPLOMA IN APPLIED LINGUISTICS

(Awarded 13th July 1959)

Aronson, Ruth Pearl, B.A. (Cape-town)	Kachru, Braj Behari, B.A. (Kashmir), M.A. (Allahabad)
Cheng, William, B.A. (Hong Kong)	Kakita, Naomi, B.A. (Hiroshima)
Cygan, Jan Jerzy, M.A. (Wroclaw)	Long, Heng Hua, B.A. (Malaya)
Hafizullah, Roqaiya, B.A., M.Ed. (Aligarh)	Reid, Charlotte, M.A.
Hughes, Melvin Norman, B.A. (Wales)	Rzewuski, Jerzy Maciej, M.A. (Warsaw)
Jafari, Mukhtar Ali, B.A., B.T. (Punjab), M.A. (Delhi)	Ulatowska, Hanna-Krystyna, M.A. (Warsaw)

FACULTY OF SCIENCE

DIPLOMA IN ANIMAL GENETICS

(Awarded 2nd July 1959)

Bloom, Joyce Lilian, B.Sc. (Lond.)

Mousa, Hussain El Sayed Osman, M.Sc. (Lond.)

DIPLOMA IN APPLIED DYNAMICS

(Awarded 2nd July 1959)

Forrest, John Murdo, B.Sc.

DIPLOMA IN BIOLOGY

(Awarded 2nd July 1959)

Firoozmand, Mehraban, D.Pharm. (Tehran)

DIPLOMA IN ELECTRONICS AND RADIO

(Awarded 2nd July 1959)

Borrie, John Alexander, B.Sc.

Howard, Wilmer, B.Sc. (Birm.)

Morrison, John Malcolm, B.Sc.

DIPLOMA IN RURAL SCIENCE

(Awarded 2nd July 1959)

HORTICULTURE

Chowdhury, Ranjit Kumar, B.Sc. (Benares)

DEPARTMENT OF PHYSICAL EDUCATION

CERTIFICATE IN PHYSICAL PROFICIENCY

MEN

Barry, Bryan Edward, B.Sc.	Hoffenberg, Ronald
Black, Peter Wilson, B.Com.	Kittelsen, Kaare Engh
Caller, Ian James	Milnes, Alan Geoffrey
Campbell, Alastair Vincent, M.A.	Smart, Ronald Adam
Cattanach, Bruce Macintosh, B.Sc. (Dunelm), Ph.D.	Stewart, Anthony Capsey
Crawford, Norman Anderson, B.Sc.	Turner, David John
Dow, Ronald Edward	Wojtan, Grzegorz Sylwester
Fowler, James William	Wright, Alfred William Fraser

WOMEN

Affleck, Ruth Hamilton	Davies, Mary Elizabeth
Brindle, Rosemary Jean	Rowlands, Elizabeth Olwen

CLASS MERIT-LISTS

ACADEMIC YEAR 1958-59

I. = first-class certificate; II. = second-class certificate

FACULTY OF LAW

PUBLIC LAW (Law Students) *Elements of Jurisprudence.* II.—Small, Jane D.

Advanced Jurisprudence. I.—Clyde, J. J.; II.—Galbraith, W. C.; Wilkin-son, A. B.

CIVIL LAW. I.—Archibald, J.; Sinclair, C. J. H.; Smith, D. B. II.—Hoskyns-Abrahall, Harriet; Murray, R.

SCOTS LAW. I.—Clive, E. McC.; Connor, C. E. C. (equal) (medal and Thow Scholarship). II.—Burnet, J. P.; Bryce, D. A.; Cameron, J. T.; Camp-
bell, E. J.; Cullen, W. D.; Forsyth, J. D.; McLeod, Joyce; Mutch, J. H.;
Nichol, C. M.; Reid, A. L.; Simpson, W. R.; Wightman, J. W.; Wood,
A. M. M.

MERCANTILE LAW. I.—Clive, E. M. (medal); McLeod, Joyce; Cullen,
W. D.; Hoskyns Abrahall, Harriet; Kermack, S. O.; Cameron, J. T.; Mutch,
J. H. II.—Wightman, J. W.; Forsyth, J. D.; Muir, A. G.; Reid, A. L.; Nichol,
C. M.; Porteous, A. L.

B.Com. I.—Ahmad, L.; Fraser, M. (joint medallists).

Class for C.A. Students. I.—Barber, R. N. (class medal); Robertson,
G. H.; II.—Stewart, R. H.; Sutherland, D. M.; Heiton, R. F.; Taylor, P. C.

INTERNATIONAL PRIVATE LAW. I.—Wilkinson, A. B. (medal);
Galbraith, W. C.; Clyde, J. J.; Shiach, G. I. W.; Milligan, J. G.

CONSTITUTIONAL LAW. II.—Edwards, R. A.; Reid, F.

CONVEYANCING. I.—Smith, I. S. (medallist and Thow Scholar);
Aitken, G. P. H.; Clyde, J. J.; Craig, L. M. (Miss); Clark, C. L. (Miss) (John
Robertson Prizewinner). II.—Carrie, N. J.; Macleod, D. I. K.; Shiach,
G. I. W.; Wilkinson, A. B.

COMPARATIVE CONSTITUTIONS (1957-58). I.—Wilkinson, A. B.
(medal). II.—Prohaska, G. H.; Stichweh, Joy.

(1958-59). II.—Penner, L. G. (Miss) (medal).

FACULTY OF MEDICINE

CHEMISTRY. Clarke, Catherine; Henson, Peter M.; Maiden, Anne V.;
Muller, Margaret A.; Purvis, Richard J.; Sang, Penelope A. Mook; Spratt,
Judith M.; Walker, Colin H.; Wilkinson, Roy P.; Wilson, Sheelagh M.

PSYCHOLOGICAL MEDICINE. Adamson, John G.; Clancy, Adrian;
Dorfman, Maurice L.; Eaton, Keith K.; Ford, William L.; Hoohlo, Richard
T.; Howard, James K.; Kennedy, Thomas M.; Kennedy, Walter P. U.;
Mawer, George E.; Munro, John F.; Sharman, William A.

TUBERCULOSIS. Baird, D. T.; Berry, P. W. D.; Boak, J. L.; Bowie,
R. A.; Burn, J. C.; Campbell, Dorothy O.; Cockburn, Forrester; Coore,
H. G.; Crompton, G. K.; Delaney, J. W.; Dewar, Mary E.; Dougall, A. J.;
Ferrer, H. P.; Gallagher, Bernadette; Gibson, P. F.; Gray, J. A.; Gunn,
Andrew; Henderson, R. D.; Heywood, B. F.; Hindley, Gillian; Jackson,
A. S.; Kershaw, P. W.; King, T. K. C.; Kinghorn, Mary; Lamont, Edith M.;
Large, Kathleen G.; Lees, Lorna J.; Lynch, J. M.; McCann, D.; Mackenzie,

Class Merit-Lists

Eileen B.; McKinnon, Marjory G. M.; Malone, D. N. S.; Massarella, G. R.; Mellor, M. J.; Millar, G. T.; Mitchell, Genevra M.; Moses, R. G.; Murchison, Lilian E.; Murray, Margaret L. S.; Peden, J. K.; Peters, Janet A.; Pottinger, R. F.; Ramsay, Andrew; Rangecroft, R. G.; Ritchie, Isobel A.; Rowan, R. M.; Selwyn, Sidney; Shafto, W. A.; Shedden, W. I. H.; Simpson, Ann I.; Simpson, C. A.; Sullivan, W. R.; Tulloch, A. M.; Turnbull, J. G.; Turner, F. W.; Udoh, E. E.; Wallace, Joan; Wray, D. G.; Craddock, A. B.

OPHTHALMOLOGY. Adamson, J. G.; Bain, D. H. T.; Brackett, T. O.; Brownlee, M. L.; Camp, S. A.; Canavan, B.; Card, I. R.; Clark, J. G.; Crookes, G. N.; Escott, T. E.; Flynn, D. M.; Ford, W. L.; Galloway, J. M. D.; Ibrahim, A. H.; Kennedy, W. P. U.; Louw, S.; Macmillan, D. C.; Morris, C. J.; Munro, J. F.; Namsoo, G. C.; Nelson, M. M.; Niven, R. M.; Philp, J. R.; Sec-Yave, P.; Smith, D. Dalrymple; Somerville, G. W.; Small, C. McG.; Tellis, M. McD.; Thompson, K. W.

DERMATOLOGY. Ala, F. A.; Cachalia, I. M.; Clancy, A.; Duthie, W. H.; Edgley, J. N.; Ferguson, J. B. P.; Ford, W. L.; Fraser, R. E.; Macleod, M. A.; Macmillan, D. C.; Morrison, J. M.; Munro, J. F.; Tellis, M. M.; Thomson, K. W.

REGIONAL ANATOMY. Dingwall, Douglas W. (medal).

PRACTICAL ANATOMY. Phillips, John A. (medal).

MICROSCOPIC AND NEURO-ANATOMY. Phillips, John A. (medal).

ANATOMY (M.B., Ch.B.). I. Dingwall, D. W.; Phillips, J. A.; Turner, Rosalie; Parboosingh, Sonja; Aderemi, A. A.; Peutherer, J. I.; Black, Ann M. R.; Cutting, C. J.

ANATOMY (B.D.S.). Dryburgh, Lorna C. (medal).

BACTERIOLOGY. Barrowman, James; Drysdale, H.; Davies, Gillian; Mayell, Margaret; Somerville, Margaret.

OBSTETRICS AND GYN/ECOLOGY. Munro, J. F. (medallist); Fraser, R. E.; Ford, W. L.; Lundie, Phyllis M.

MEDICAL ILLUSTRATION. Harris, T. D. (medal).

FACULTY OF ARTS

Department of Language and Literature

ENGLISH LITERATURE. First Ordinary Course. I.—Kay, Christian J. (class medal); Llewellyn, Gwyned; Minnion, John L.; Johnstone, Gillian L. Massa, Ann R.; Christison, David (Logie Robertson Prize). **II.**—Aikman, Andrew M.; Andrews, John N.; Bain, John; Bathgate, Janice E.; Baxendale, Edith M.; Baxter, Margaret G.; Bell, Margaret; Ben Hamid, Mohamed N.; Billington, Yolande M.; Bray, Penelope; Broome, Juliet A.; Bunyan, Jean C.; Cameron, Margot; Clark, Dorothy A.; Cocker, Marguerite V.; Coggan, Dorothy A.; Collin, Susan N.; Craig, Helen D.; Crichton, Thomas; Danskin, John S.; Davidson, Donald H.; Dunnett, Ivy J.; Eddell, Alice M. K.; Ewen, Aileen A.; Farmer, Jerrold M.; Fleming, George S.; Fleming, James A.; Fulton, Norma A.; Gossip, Christopher J.; Govan, Gillian M.; Hallett, Pamela M.; Henderson, Alex. G.; Heuer, Karsten; Hewat, Richard J.; Hickson, Jeremy; Howlett, Andrew M.; Jenkinson, Edith A. R.; Kelly, Jocelyn A. K.; Kinnear, Katherine T.; Kirk, Cecilia A. (non-graduating); Law, Douglas; Leask, Pamela S.; Letham, Myra E.; Logan, Robert N. S.; McAinsh, Patricia A.; Macgregor, Judith M.; Macrae, Alasdair D. F.; Martin, Helen C.; Mavor, Mabel; Miller, Arthur J.; Mitchell, Margaret R.; Morrison, James W.; Murray, Elizabeth A.; Niven, Rosemary; Olson, Sondra C. (non-graduating); Paton, John A.; Pearson, Simon; Porteous, Alexander; Porteous, Esther F. B.; Regan, Josephine J. M.; Reid, David A.; Reilly, John E.; Rendall, Evelyn B.

Class Merit-Lists (Faculty of Arts)

Robinson, Eric; Robson, Elizabeth F.; Van Rose, Ben A.; Ross, Thelma M.; Rump, Horace A.; Saunders, Helen B.; Schwandt, Susan M. (non-graduating); Scotchmoor, Jennifer M.; Shepherd, John B.; Simpson, Margaret J.; Sinclair, Ian A.; Sinclair, Marjorie; Smith, Agnes B.; Smith Laura J. (non-graduating); Talbot, John R. (non-graduating); Taylor, Miranda J.; Thomson, Elizabeth C.; Thornton, Lesley G.; Turnbull, Ian; Valentine, Alastair; Wood, Douglas L. (non-graduating); Young, Moyra A.

Second Ordinary Course. I.—Kean, R. C. (medal and Saintsbury Prize); Begg, M. A.; Fleming, Margaret; Smith, Donnetta. II.—Nobbs, Elizabeth A.; McCafferty, James; Stebbing, Margaret W.; Glasscoe, Marion; Hanway, Margaret J.; Balfour, Nicolette J.; McGuinness, James; MacKenzie, W. G.; Slade, D. F.; Ferrie, Helen K. J.; Dickers, Douglas; MacIver, Catherine M.; Jenkins, A. E.; Mulholland, Joan; O'Donnell, W. R.; Boyes, Christine M.; Bolt, Jennifer B.; Drever, Alison I.; Elliott, Winifred N.; Paris, R. J. B.; Morton, Janetta R.; Sleggs, Margaret M.; Moraitis, Eleutheria L.; Sutherland, Mary B. J.; Thornton, Frances J.; Mulgray, Helen R.; Mull, Susanna H.; Hercus, G.; Lehu, J. W.; Sheldon, M.; Bauman, B. C.; Baidler, E. A.; Johnstone, A. G.; MacColl, Christine M.; Scott, T. MacL.; Graham, N.; Mayo, L. S.; Mulgray, M. L.; Bell, Edith E. B.; Gemmell, S. M.; Stewart, E. W.

ENGLISH LANGUAGE. Ordinary Course. I.—1, Maciver, Catherine M. (class medal). 2, Nobbs, Elizabeth A. 3, Macnicol, J. F. 4, (equal) Drever, Alison I.; and Morton, Janette R. 6, Templeton, Janet. 7, (equal) Embleton, Lorna I.; and Smith, Donetta. 9, (equal) Boyes, Christine M.; Fleming, Margaret; Mulgray, Morna L.; and Macpherson, Gillian M. 13, Thornton, Frances J. II.—14, MacKenzie, W. G. 15, (equal) Hendry, Catherine M. A. F.; and Smith, Isobel G. 17, Cooke, Maureen; Keith, Sara; McCafferty, J.; and Steele, J. H. 21, (equal) Allan, Rosemary J.; Hercus, Georgina; and Johnstone, Anne G. 24, (equal) Begg, M. A.; Ferrie, Helen K. J.; Mulgray, Helen R.; and Wood, D. 28, (equal) Gilbert, P. C.; Glasscoe, Marion. 30, (equal) Saigal, P. K.; Seebold, E.; Shively, Suzanne; and Williamson, D. A. 34, (equal) Ballantyne, Stella A.; Bolt, Jennifer B.; Cairns, Susan L.; Jenkins, Ann E.; Ramsay, J. P.; and Sleggs, Margaret M. 40, (equal) Mulholland, Joan; Penner, Leslie G.; Stebbing, Margaret W.; and Vickers, D. 44, (equal) Bauman, Bette C.; Hillocks, G.; Worrall, Rosemary E. (unclassified).

Intermediate Honours Course. I.—Gunn, Moira F.; O'Donnell, W. R. II.—Allanach, Kathleen J.; Body, Lilian M.; Brown, G.; Christie, T.; Free-land, Valerie M.; Gaffney, J. T.; Jones, Charnian A. W.; McMillan, Eileen; Murray, Isobel M.; Oulton, L. G.; Thomson, L. H.; Wilkie, Jean S. C.; Willson, Ailsa M. Wynne; Wilson, J. D.; Woodford, Diana M.; Zakrzewska, Helena M.

FRENCH. First Ordinary Course. I.—1, Stephenson, Rosemary L. (medal and prize). 2, (equal) Catt, Bruce C.; Houston, Elizabeth; and Leask, Pamela S. 5, (equal) Hamilton, William I.; and Lindsay, Grant A. M. 7, (equal) Nisbet, Hugh B.; and Sundewall, Jean. II.—Armour, Donald; Arnott, Frances; Baker, Alan J.; Barnard, Patricia A.; Baur, Anthony R.; Bennett, Valerie; Bonar, Patricia J.; Bowes, Alice D. D.; Butterworth, Glenis; Curry, Margaret A.; Eldridge, Anthony L.; Flockhart, Janet R.; Freeman, Elizabeth A.; Geddes, Marion K.; Grieve, Elizabeth A.; Hallett, Pamela M.; Heron, Ethel M.; Hickson, Jeremy; Hood, Elsie M. D.; Hutton, John P.; Jordan, Margaret J.; Langdon, Phoebe E.; McCowan, Andrew D.; McDonough, Lorna E.; McLean, David C.; McNab, James P.; Manson, Frances M.; Matheson, Olive C.; Mitchell, Rosemary A.; Page, Felicity C.; Peacock, Alexander W.; Penny, Ralph J.; Proctor, Winifred A.; Rich, Janet E.; Roberts, Christopher B.; Robinson, Eric; Ross, Thelma M.; Saunders, Helen B.; Shell, Jennifer; Smith, Agnes B.; Stewart, Margo L.; Stokes, Mary; Thomas, Gillian M.; Walker, Judith; Watson, Wendy J.; Wilson, Diana M.; Wilson, Ellen M.; Wilson, John R.; Cooper, B. J.

Class Merit-Lists

Second Ordinary Course. II.—Adelman, Rosalind; Rae, Lorna L.

Intermediate Honours Course. I.—Clarasó, Mercedes (prize). **II.**—Barr, Elizabeth A.; Bruck, Mary C.; Espinasse, Frances G.; Levy, Brian J.; Ludden, Brian A.; Munro, James S.; Rendall, Evelyn B.; Thomson, Aileen M.; Thomson, Elizabeth K.

Final Honours Course. I.—Malkani, Monique; Robertson, Robert W. T. **II.**—Browne, Christine M.; Buckley, R. Heather; Deacon, Elizabeth B.; Kennedy, Irene J.; Mutch, Helen W. R.; Scott, Margaret McN.; Selvidge, Valerie A.; Tomlinson, Harry; Wear, Daniel B.

GERMAN. First Ordinary Course. I.—1, Rennie, William M. (prize). 2, Stephenson, Rosemary L. (prize). 3, Nisbet, Hugh B.; and Sundewall, Jean. 5, Catt, Bruce C.; McLean, David C.; and Wagner, Eva. **II.**—8, Frick, Hansjürg R. 9, Gillies, Morag A.; Purves, James H.; and Roberts, Elin M. 12, McNab, James P. 13, Heron, Ethel M. 14, Smith, Agnes B. 15, Gossip, Christopher J.; Robertson, Craig; and Stewart, Madeline M. 18, Bennett, Valerie; and Macartney, William J. A.

Second Ordinary Course. II.—1, Villiers, Patrick E. F. 2, Bunney, (Mrs.) Léonie M. 3, Jennings, Margaret. 4, Cook, Donald. 5, McGonigal, Euphemia P. 6, Blow, Eileen; Campbell, Kenneth F.; and Heron, Isobel P. 9, Bloch, Angeline M. E.; Mitchell, Margaret R.; and Young, Russell E. A. 12, Scott, Maisie M.

Intermediate Honours Course. I.—1, Rendall, Evelyn B. (prize). 2, Munro, James S. (prize). 3, Bruck, Mary C. (prize). 4, Hollands, Ronald C.; and Levy, Brian J. 6, Henderson, Alexander G. 7, Cameron, Alexander W.; and Horn, Alison B. **II.**—9, Taylor, Thomas J.; and Thomson, Aileen M. 11, Barr, Elizabeth A.; Gardiner, Marjory J.; and Morgan, Margaret C. C. 14, Thomson, Elizabeth K. 15, Page, Evelyn I. 16, Munro, Keith. 17, Moore, Joan. 18, Bell, Penelope D. R.; and Morris, Neil H. P.

Final Honours Course. II.—Amos, Margaret Jeanette; Blair, Anne B.; Dunbar, Gerald H.; Easson, Elizabeth C.; Gourlay, Elizabeth McR.; Hill, Mabel; Kerr, Anne W.

GREEK. Ordinary Course. I.—1, Edwards, Alan W.; and Grant, John N. (medals and Butcher Memorial Prize). 3, Wellesley, Inga C. **II.**—4, Kellas, D. J. 5, Pearce, Felicity C.; and Weir, Margaret A. 7, McClements, D. E. 8, McGregor, B. 9, German, F. D.

Intermediate Honours Course. I.—1, Howie, A.; and Wright, James R. G. (medals and C. S. Edgar Prizes). 3, Russell, N. G. F. 4, Grant, Margaret M. **II.**—5, Thorpe, Anne E. A. 6, Renwick, W. R. 7, Crawford, Anne M. 8, Richardson, H. 9, Braine, Joyce M. 10, Downie, Emma S. H. 11, Hall, R. K.

Honours Course. I.—1, Weir, George A. (medal and Scott and Dunbar Prize). 2, Wylie, J. V. C. (C. S. Edgar Prize). 3, Reid, R. A. 4, Herring, D. 5, McNeil, D. J.; and Reid, D. R. 7, Murison, C. L. 8, Roy, J. 9, Strachan, J. C. G. 10, Macpherson, A. J. **II.**—11, Stuart, J. 12, Collins, Mary. 13, Black, T. R. 14, Burns, D. J. M. 15, Dingwall, Grace M. 16, Osler, Jean M.; and Smith, Margaret M. 18, Hughes, D.

ITALIAN. First Ordinary Course. I.—Gunn, Moira F. **II.**—Chapman, Jennifer P.; Guillochon, Marie-Antoinette; Hill, Juliana L.

Intermediate Honours Course. II.—Gilbert, Peter C.; Jukes-Johnson, John A. R.

Junior Honours Course. II.—Lucas, Ann E. L.

Class Merit-Lists (Faculty of Arts)

LATIN. First Ordinary Course. I.—1, Martin, Helen C. (medal). II.—2, Hallett, Pamela M.; and Mavor, Mabel. 4, Hendrie, Carol C. 5, Thomson, Elizabeth C. 6, Malone, J. A. 7, Kay, Christian J. 8, Halloran, Rosemary E. 9, Ross, Sheila M. 10, Rogers, Christine G. 11, Curry, Margaret A. 12, Eddell, Alice M. K. **Prose.**—1, Kay, Christian J. 2, Martin, Helen C. 3, Stephen, Janet M. J.

Second Ordinary Course. I.—1, Edwards, A. W.; and Wellesley, Inga C. (medals). 3, Grant, J. W. 4, German, F. D. 5, Weit, Margaret A. II.—6, Pearce, Felicity C. 7, McGregor, B.; and Robertson, I. 9, Kellas, D. J. 10, McClements, D. E. 11, Rattray, Fiona M. 12, Smith, Isobel G. 13, Wood, Anna C. M. 14, Graham, Sheila M. 15, McGuire, C. A. P. 16, Paterson, A. T. 17, Bauld, Elizabeth. 18, Herd, Kathleen B. 19, Bryan, P. L.; and Turner, Christine T. R. 21, Shepherd, Sara J. **Prose.**—1, Weir, Margaret A.; and Wellesley, Inga C. 3, Edwards, A. W.

Intermediate Honours Course. I.—1, Wright, J. R. G. (medal). 2, Howie, A. 3, Russell, N. G. F. 4, Thorpe, Anne E. A. 5, Grant, Margaret McL. II.—6, Richardson, H. 7, Fleming, Margaret. 8, Mulgray, Morna L. 9, Mulgray, Helen R.; and Renwick, W. R. 11, Braine, Joyce M. 12, Downie, Emma S. H. 13, Crawford, Ann M. 14, Affleck, Ruth H. 15, Campbell, Alexandra A. 16, Abrahamson, Sophia Y. 17, Fraser, I. 18, Niven, Rosemary. 19, Priestley, D. J. 20, Tennant, H. McK. 21, Espinasse, Frances G. 22, Elwood, R. 23, Hall, R. K. 24, Chalmers, M. 25, Govan, F. J. 26, Paterson, Anne M. R.

Honours Course. I.—1, Weir, G. A. (medal). 2, Reid, R. A.; and Wylie, J. V. C. 4, Murison, C. L. 5, Strachan, J. C. G. II.—6, Collins, Mary. 7, McNeil, D. J.; and Stuart, J. 9, Reid, D. R. 10, Macpherson, A. J. 11, Roy, J. 12, Dingwall, Grace M. 13, Herring, D. 14, Sich, Juliet C. 15, Burns, D. J. M. 16, Chalmers, G. Vera C. 17, Osler, Jean M.; and Smith, Margaret M. 19, Sutherland, I. R. 20, Black, T. R. 21, Scott, R. J. D. 22, McGuffie, Jessie M. 23, Blyth, C. H. 24, Pickles, C. J. R. 25, Hughes, D. 26, Sinclair, Hazel M. 27, Mackintosh, D. J.

RUSSIAN. First Ordinary Course. I.—1, Reid, Alexander (medal). 2, Shaulis, Frank. II.—3, Inglis, James; 4, Roberts, Christopher B.; Murray, Stewart R.

Second Ordinary Course. II.—1, Johnstone, David; Ertz, Nicholas.

Intermediate Honours Course. II.—1, MacBride, Winifred. 2, Munro, Keith; Cox, Douglas.

Final Honours Course. I.—1, Melrose, Margaret W. (medal). II.—2, Wills, Peter B.

SPANISH. First Ordinary Course. I.—Gray, W. A.; Penny, R. J. II.—Baur, A. R.; Finlayson, T. J.; Murray, D. B.

Second Ordinary Course. II.—McCann, R. J.

Intermediate Honours Course. I.—Clarasó, Mercedes; Scott, Louie G. (non-graduating).

Final Honours Course. II.—Pons, Lourdes R.; Sykes, M. Rosemary.

DEPARTMENT OF MENTAL PHILOSOPHY

LOGIC AND METAPHYSICS. First Ordinary Course. I.—Wilson, Miss J. H. (medal); Robson, J. S.; Hultzen, C.; Pompa, L. II.—Drysdale, N.; Greaves, G. R. H.; Rowe, N. P.; Shaud, J. H.

Second Ordinary Course (Intermediate Honours). I.—Smith, R. C. (medal and prize); Aston, B. J. (prize). II.—Litster, A. C.; Finlay, W. P.

Honours Course. I.—Campbell, A. V. (medal); Overend, R. G.; Hope, V. McN.; Ross, R. J.

Class Merit-Lists

MORAL PHILOSOPHY. I.—Mowat, A. McL. (medal); Vickers, D.; Dewar, R. D.; Sagman, M.; Glasscoe, Marion; Wright, J. R. G. II.—McAdam, A. D. S.; Tait, G. W.; Clogg, R. R. M.; Moore, A. F.; Finlay, W. P.; Moore, Joan; Burgess, Rosemary K.; Lowe, Helen McL.; van Rose, B. A.; Clark, Evelyn F.; Robb, Sheila M.; Thomson, Aileen M.; Walker, A. J. S.; Onwufuju O. L.; Davidson, D. M.; Fraser, I.; Gemmell, Sheila M.; Iland, Mary; Smith, I. R. S.; Tennant, Frances E.; Baker, Ann W.; Kinnell, M. G.; Hastic, Margaret M.; Morrison, J. W.; Tilton, Patricia M.; Flashtig, A. J.; Gray, I. G. F.; Aitken, T. C.; Hollands, R. C.; Macpherson, Gillian M.

PSYCHOLOGY. First Ordinary Course. I.—Adams, Isabella S.; Davren, Norman J.; Dawrant, Jean M.; Dobbie, Scott J.; Fung, Margaret E.; Godfrey, Evelyn; Houston, Elizabeth G.; Hunter, Thomas F.; Milligan, Alison J.; More, Iris H. (medal); Pole, James W.; Pompa, Leonardo; Turner, James, M. C.; Whyte, James L. II.—Adamson, Margaret A.; Allanson, Keith; Baraclough, Joan; Blackler, David G.; Bradshaw, Hazel M.; Colman, Frances A.; Crawford, Iain M.; Currie, Victoria; Doig, Archibald F.; Doyle, Thomas; Finlayson, Douglas M.; Gilbert, Peter C.; Grant, Linda A.; Hughes, Elizabeth J.; Kennett, Jean F.; Kilpatrick, Neil O.; Lind, Anna G.; McCall, Helen S. M.; Morton, Janette R.; Osborne, Trevor G.; Ross, Iain C.; Russell, Jennifer; Scott, Fiona K.; Seth, Loudon; Smith, Matthew; Thomson, Stewart A.; Watson, Alan A.

Second Ordinary Course. I.—Asmundsson, Gylfe; Blake, Buxton G.; Craik, F. I. M.; Lowenthal, Ruth R. II.—Dingwall, Margaret R.; Fox, John G.; Hall, Gwendoline (Mrs); Swanson, William I.

Intermediate Honours. I.—Corteen, Raymond S. II.—Church, Annette L.; Krukowski, Elizabeth; Mackay, Donald N.

Bachelor of Education Course. II.—Barwise, Frank; Benezra, Margaret R. M.; Bunyan, Stephen A.; Carrol, Charles G.; Grant, James A. P.; Macnamara, John; Panday, Hira D.; Passakos, Constantine; Watson, William H.

POLITICAL ECONOMY. Ordinary Course. I.—1, Purves, J. H. (medal and Merchant Company Prize). 2, Baker, A. J. (George Watson Prize). No award of the Daniel Stewart Prize. II.—Anderson, W. A.; Chambré, J. A.; Coggan, Dorothy A.; Cumming, J. S.; Davies, Elizabeth M. V.; Dumville, Georgia; Farmer, J. M.; Gregory, Julia O.; Houston, Elizabeth G.; Kapur, S. K.; Krassowski, A. F.; Lumsden, May B.; Mackintosh, S. C.; MacLennan, D. J.; McPhee, Margaret E.; Mitchell, N. St. H.; Ogilvie, June R.; Paterson, Moira D. G.; Peacock, A. W.; Reid, F.; Rose, J. S.; Sinclair, I. A.; Stein, G. F.; Sutherland, D. McL.; Wilkinson, A. W.; Williamson, W.

Intermediate Honours Course. II.—Ewing, T. A.; Hunt, J. M. V.; Kelly, F. H.; Sharples, J. C.; Thomson, S. A.

Honours Course (First Year). II.—Capaldi, M.; Cutt, J.; Wilson, R. M. A.

Honours Course (Final Year). I.—1, Simpson, David R. F. (medal and Mary Theresa Rankin Prize). 2, Dunn, H. J. R. II.—Lumsden, K. G.; Nicolson J. R.; Pearse, P. H.; Rodger, A. A. S.

ELEMENTS OF STATISTICS. I.—Mackenzie, Catherine R.; Payne, F. R.; McGilvray, J. W.; Park, R. C. R.; Greig, R. M.; Cutt, James. II.—Leask, H. M.; Rowe, N. P.; Davenport, M. W. S.; Hemmings, D. B.; Hayles, N. R.; McGhee, George; Wickham, W. I.; Ewing, T. A.; Webster, Isabel R.

SOCIAL ANTHROPOLOGY. First Ordinary Course. I.—Gordon, G.; Milligan, Alison J. II.—Casady, Carolyn; Healy, Irene E.; Morrison, J.; Ranson, B. H. A.; Travers, Judith E.; Tylor, R. M.; Vaughan, Pauline W.

Intermediate Honours. I.—Martin, Sarah; II.—Woods, Christine.

Final Honours Course. II.—Asad, T.; Butcher, D.

Diploma in Social Anthropology. I.—King, Anne V.

Class Merit-Lists (Faculty of Arts)

DEPARTMENT OF SCIENCE

GEOGRAPHY. First Ordinary Course. I.—1, Crichton, T.; 2, Malloch, Alison M. 3, Arthur, Janet M. 4, Borrow, Fiona M. 5, Lowenthal, Ruth R. 6, Morrison, I. 7, Porteous, Gillian F. A. 8, Moss, Barbara H. II.—9, Barnard, Patricia A. 10, Johnston, Janette E. 11, Bruce, G. D. 12, Donnelly, J. B. 13, Bowman, Anne; Shepherd, J. B.; Watkins, A. G. 15, Adams, Isabella S. 17, Drever, Elsie M. 18, Blyth, Margaret L.; Cassie, C. E. S.; Gordon, G.; Horenstein, Anne. 22, Barr, Elizabeth A.; Hair, Katherine L.; Reynolds, Jean K. B. 25, Laird, Janette M. P. 26, Black, A. G.; Pullin, Elizabeth W. 28, Brown, W. I. S.; Dempster, R. M.; Porter, Sally B.; Sheehan, Isobel M. 32, Cochrane, Pamela M. G.; Frater, Mary E. 34, Travers, Judith E. 35, MacAlister, M. J. 36, Cullingford, R. A. 37, Miles, S. R. 38, Duncan, Helen; Paton, G. A. J.; Ramsay, D. P. 41, Aitchison, Elsie G.; Caunce, Hilary R.; Osborne, T. G. 44, Lang, Elizabeth M. 45, McEwan, B. A. 46, Ranson, B. H. A.; White, Patricia, J. G.

First Ordinary Economic Geography. I.—1, Mackelvie, Fiona V. 2, David, G. A. 3, Weller, T. H. B. 4, Elgey, Sister Judith M.; Greene, D.; Millar, G. I.; Slipe, A. II.—8, Nyanzi, S. 9, Cassie, C. E. S. 10, Clark, J. A. 11, Palmer-Jones, M. C. 12, Cookey-Gam, S. E.; Goring, S. A. 14, Blackler, D. G.; Krassowski, A. F. 16, Smith, V. J. R.

Second Ordinary Course. I.—1, Bowie, Isa. II.—2, Clapperton, C.; Ferguson, A.; Henderson, J. W. 5, Hinshelwood, Isobel; Martin, Sarah. 7, Coulson, A. 8, Dawes, J. Margaret; Dodd, J. S.; Rowe, Bridget. 11, Carnegie, D. W. O. 12, Breslin, W.; Threlfall, C.; Walker, R. P. 15, Allan, Alison M.; Armstrong, G.; Minay, C.; Norton, Ann C.; Scrimgeour, W.; Tarrier, A. Rachael; Turner, J. R.; Wight, I. D.

Honours Course (Physical). I.—Basten, Mary. II.—Barker, Sybil R.; Barton, E.; Brown, Eileen E. R.; Brown, I. J. H.; Crawford, Elinor I.; Fletcher, C. F.; Harding, E. C.; Hendry, M. R. M.; Lamb, G. A. W.; Mackie, A. M.; Millar, J. B.; Nicolls, Bridget A.; Strachan, Ann M.; Taylor, D. R. F.; Tindal, Tessara S.; Walker, Moragh C.; Wilkinson, H. W.

Honours Course (Cartography). I.—Millar, J. B. II.—Barker, Sybil R.; Barton, E.; Basten, Mary; Brown, Eileen E. R.; Brown, I. J. H.; Fletcher, Fiona M.; Harding, E. C.; Hendry, M. R. M.; Lamb, G. A. W.; Law, Helen R.; Mackie, A. M.; Nicolls, Bridget A.; Strachan, Ann M.; Taylor, D. R. F.; Tindal, Tessara S.; Vettese, J. W.; Walker, Moragh C.; Wilkinson, H. W.

Honours Course (Regional). I.—Millar, J. B. II.—Barker, Sybil R.; Barton, E.; Basten, Mary; Brown, Eileen E. R.; Brown, I. J. H.; Downie, B. N.; Fletcher, Fiona M.; Fraser, C. F.; Harding, E. C.; Hendry, M. R. M.; Lamb, G. A. W.; Mackie, A. M.; Nicolls, Bridget A.; Strachan, Ann M.; Taylor, D. R. F.; Tindal, Tessara S.; Walker, Moragh C.

Honours Course (Human). I.—Niven, B. M. II.—Anderson, Maureen E.; Barclay, A. C.; Bould, S. I.; Hopwood, Morag; Lacey, J. B.; Maconochie, A. K.; Morrison, E. Ann L.; Nash, J.; Paterson, R.; Rogers, K. S.; Slater, J. Dorothy; Waterston, A.

Honours Course (Economic).—I.—Niven, B. M.; Ross, W. S. II.—Barclay, A. C.; Bould, S. I.; Hopwood, Morag; Lacey, J. B.; Maconochie, A. K.; Morrison, E. Ann L.; Nash, J.; Paterson, R.; Rankin, Sally A.; Rogers, K. S.; Simister, T.; Slater, J. Dorothy; Watson, Nicola J.

Honours Option Course (Political). I.—Niven, B. M. II.—Bould, S. I.; Gilmour, Ann W.; Lacey, J. B.; Maconochie, A. K.; Morrison, E. Ann L.; Nash, J.; Rankin, Sally A.; Ross, W. S.; Southam, Barbara; Waterston, A.; Watson, Nicola J.

Class Merit-Lists

Honours Option Course (Social). II.—Anderson, Maureen E.; Hopwood, Morag; Rogers, K. S.; Slater, J. Dorothy.

Honours Option Course (Cartography). II.—Barclay, A. C.; Paterson, R.

GEOLOGY AND MINERALOGY. First Ordinary Course. I.—Clapperton, C. M. (medal). **II.**—Hope, R. C.; Bowie, Isa; Henderson, J. W.; Arnott, Frances J.; Dawes, Joan M.; Fordyce, Fiona M.; Hinshelwood, Isobel W.; Minay, C. L. W.; Threlfall, C.; Paes, Rita V.

Second Ordinary Course. II.—Moorhouse, Rosemary D.

MATHEMATICS. First Ordinary Course. I.—1, Stoddart, David A. B. (medal). 2, McIntosh, Ian A. N. 3, Bunyan, Christine M. 4, Wilson, George A. S. 5, Macdonald, Janet. 6, Catto, Eoin M. 7, Wilson, Alexander. 8, Macpherson, Christine; and Watt, Douglas J. 10, Mackenzie, Catherine R. 11, Young, Elspeth J. 12, Crawford, William J. 13, Sutherland, Mary A. 14, McLean, Anne R. **II.**—Amos, Agnes H.; Barr, Kenneth G.; Beveridge, Anne; Callar, Ian J.; Colley, Patricia A.; Gordon, Jane E.; Grieve, Maureen F.; Hamilton, William I.; Hardie, Fiona E.; Henderson, Sheila E.; James, Ian; Lindsay, Grant A. M.; McAuley, Margaret; McDonald, Margaret R.; Nyanzi, Semei; Paul, Elizabeth J.; Smith, Elizabeth M. W.; Powart, Gillian C.; Stephen, Janette M. J.; Stewart, Marilyn G.; Wilson, Ellen M.

Second Ordinary Course (Arts) and I (Science) (A). I.—1, Binns, Michael R.; and Davies, Andrew T. (medals). 3, Mackenzie, Iain S. 4, Taylor, Linda D. 5, Mansion, Douglas G. 6, Cooper, Ian L. 7, Hogarth, Robert. 8, Gould, David. 9, Houston, Alison A. 10, Scott, David K. 11, Henderson, George R. 12, Fancey, Norman E.; and Persaud, Lilavati. 14, Wales, John L. 15, Semeonoff, Robert. 16, Davidson, Walter F. 17, Lyall, William. 18, Green, George L. 19, Morrison, Ian M. 20, Brown, Ian S.; and Horne, Dale G. 22, Brindle, Rosemary J. 23, Ogg, Neil R.; and Proctor, Alan R. 25, Barnes, Francis H. 26, Maylotte, Donald H.; and Taylor, Joseph M. 28, Paterson, Isabella S. 29, McNab, James M. 30, Ramsay, Ian A. Unplaced, Seath, Valentine A.; and Veitch, Alexander R. **II.**—Bathgate, Edward K.; Grant, Angus M.; Hopkinson, Angela; Inglis, John F.; McCarthy, Patrick J.; Macgregor Jean, M.; Peat, Anne M.; Reid, George F.; Robertson, James H.; Sellar, Valerie J.; Smith, James K.; Spiers, Eunice J.; Tahta, Joseph K.; Toner, Margaret K.; Whyte, John J.; Wood, Charles J.; Young, Elspeth A.

Second Ordinary Course (Arts) and I (Science) (B). I.—1, Bain, Isobel C.; and Elliot, Alexander B. M. 3, Drysdale, David D. 4, Montgomery, Sandy B.; and Musgrave, Ralph G. 6, Mackay, Alexander I.; and Murphy, G. Alan. 8, Fraser, Kenneth A. 9, Russell, Jennifer. 10, Day, Michael A.; and Forbes, John D. 12, Caldicott, Susan M. 13, King, James. 14, Baillon, Anthony H.; and McDougall, Thomas D. 16, Meiklejohn, Jillian M. M.; Smith, Martin F.; and Westwater, Michael C. 19, Stirling, Robert. 20, Buckingham, Ronald G. 21, Dobbie, Scott J. 22, McRoberts, Ian S. 23, Durie, Irene E. **II.**—Anderson, John D.; Anderson, Sheila P.; Clarke, Martin B.; Duncan, Ruth M.; Forbes, Iain M.; Forrest, David A.; Freeman, James M.; Gourlay, Margaret S.; Irvine, Annalene M.; Jack, Donald G.; MacDonald, Colin; Macleod, Robin J.; Macrae, Colin J. D.; Miller, Josephine M.; Muir, Katherine G. P.; Phillips, Alison M.; Roberts, Gillean S.; Slater, John G.; Shiel, William R.; Vyse, Barry; Williamson, Andrew J.

Second Ordinary Course (Arts) and I (Science) (C). I.—1, Geddes, Marion K. 2, Watt, Arthur A. 3, Jeans, Phyllis. 4, Mekié, David C. **II.**—Macaulay, Edwin W.; Maclean, Duncan I. H.; Old, David C.; Ward, James.

Intermediate Honours Course (Arts) and II (Science). I.—1, Finlayson, Irene R. P. (medal). 2, Eggleton, Peter P. 3, Halliday, Ian G. 4, Campbell, Ian A. 5, Greaves, George R. H. 6, Cochran, Anne G. 7, Ross, Isabella S.

Class Merit-Lists (Faculty of Arts)

8, Maclean, Janet N. 9, Bews, Andrew M. 10, Gelletly, William; and Stovell-Gross, Jacqueline. II.—Drysdale, Nicol; Eadie, Norman W. M.; Foyer, Ronald; Hay, Kenneth A.; Kelly, Regis B.; Kerr, Katherine A.; McCosh, Andrew M.; Thomson, Alan M.; Thorpe, Wilson G.; Woodman, Henry E.

Honours Courses. Foundations of Analysis. I.—1, Drummond, Ian T. (medal). 2, Millar, Alexander. 3, Cunningham, John. 4, Boardman, Margaret J. 5, Robinson, Derek J. S. II.—Crabtree, Michael G.; Dingwall, Iain C.; Dryburgh, James B.; Eadie, William T.; Murdoch, Eileen; Qureshi, Mohd A. R. (M.A.); Rose, John S.; Scott, William A. B.; Wolfenden, James D. **General Analysis.** I.—1, Cunningham, John (medal). 2, Eadie, William T. 3, Robinson, Derek J. S. 4, Drummond, Ian T. 5, Taylor, Andrew W. B. II.—Dingwall, Iain C.; Hart, Robert; Murdoch, Eileen. **Algebra and Geometry.** I.—1, Rose, John S. (medal). 2, Robinson, Derek J. S. 3, Wren, Anthony. II.—Adamson, Iain B.; Boardman, Margaret J.; Dryburgh, James B.; Fisher, Marion M.; Kelly, Ann; Millar, Alexander; Scott, William A. B. **Mathematical Laboratory.** I.—1, McDonald, Andrew (medal). 2, Wren, Anthony. 3, Mackay, Robert H. 4, Kelly, Ann. 5, Scott, William A. B. 6, Muzyka, Ann. 7, Dingwall, Iain C. 8, Eadie, William T. II.—Bairns, Robina M.; Boardman, Margaret J.; Dow, Donald E.; Dryburgh, James B.; Fisher, Marion M.; Fraser, William G.; Fung, Margaret E.; Hayat, Ferhanda A.; Hiorns, Robert W.; Murdoch, Eileen; Slater, Gwendolyn; Smith, John; Wolfenden, James D.

MATHEMATICAL PHYSICS. Ordinary (Arts) and I (Science). I.—1, Henderson, G. R. (medal). 2, (equal) Davies, A. T.; and Westwater, M. C. 4, Barnes, F. H. 5, Mansion, D. G. 6, Binns, M. R. 7, (equal) Persaud, Lilavata; and Scott, D. K. Veitch, A. R. (unplaced). II.—10, Davidson, W. F. 11, Mackenzie, I. S. 12, Pullan, Gillian M. 13, Brown, I. S. 14, Buckingham, R. G. 15, Kelly, R. B. 16, (equal) Houston, Alison A.; and Ogg, N. R. 18, Taylor, Linda D. 19, Semeonoff, R. 20, (equal) Caldicott, Susan M.; and Elliot, A. B. M. 22, Fancey, N. E. 23, Forbes, J. D. 24, (equal) Gelletly, W.; and Tahta, J. K. 26, McRoberts, I. S. 27, Greig, R. F. B. 28, Lyall, W. 29, (equal) Hopkinson, Angela; and Ramsay, I. A. Seath, V. A. (unplaced).

Intermediate Honours (Arts) and II (Science). I.—1, Eggleton, P. P. (medal). 2, Campbell, I. A. 3, Halliday, I. G. 4, Cochrane, Anne G. 5, Woodman, H. E. 6, Finlayson, Irene R. P. 7, Thorpe, W. G. 8, Stovell-Gross, Jacqueline. 9, Greaves, G. R. H. II.—10, Hay, K. A. 11, Cassels, I. G. 12, Drysdale, N. 13, McLaren, P. 14, Brown, J. R. 15, Kerr, Katherine A. 16, Crombie, Alexina D. 17, (equal) Cameron, Susan C.; and Irvine, J. M. 19, Robertson, J. S. 20, (equal) Haston, I.; and Sloan, Mary C. 22, Ross, Isabella S. 23, Moore, J. S. Warner, B. D. (unplaced).

METEOROLOGY. II.—Wishart, J. G.

NATURAL PHILOSOPHY AND PHYSICS. Second Ordinary and Physics IA. I.—1, Scott, D. K. (medal). 2, Mackenzie, I. S. 3, Fancey, N. E. 4, Davies, A. T. 5, Greaves, G. R. H.; and Henderson, G. R. 7, Westwater, M. C. II.—Barnes, F. H.; Caldicott, Susan M.; Clarke, M. B.; Davidson, W. F.; Green, G. L.; Mackay, A. I.; Mansion, D. G.; Pullan, Gillian M.; Ramsay, I. A.; Semeonoff, R.; Smith, M. F.; Taylor, Linda D.; Veitch, A. R.; Vyse, B.

Physics IB. I.—1, Bain, Isabel C. (medal). 2, Day, M. A. 3, Caldwell, A. D.; and Lucas, A. M. 5, Wattison, S. D. 6, Cooper, I. L.; and Drysdale, D. D. 8, Manson, A. L.; and Slater, J. G. 10, Anderson, T. B. 11, Galloway, I. J. B. 12, Hunter, A. J. II.—Belshaw, D. J.; Charters, J. C. T.; Contento, Isobel R.; Dawson, J.; Donaldson, I. A.; Duffus, J. A.; Hamilton, T. S.; Jones, R. I. L.; Kirk, A.; Leckie, G. G.; Littlejohn, G. S.; McDougall, P.;

Class Merit-Lists

MacGregor, Jean M.; MacNab, R. B.; McNeil, K. M.; Maylotte, D. H.; Meiklejohn, Jillian M. M.; Mekie, D. C.; Monaghan, C. E.; Montgomery, I. D.; Murray, J.; Musgrave, R. G.; Morton, W. L.; Pearce, R. A. C.; Rae, P. C.; Secyave, M. F. M.; Somerville, Dorothy A.; Sutherland, M. M.; Stewart, G.; Williamson, A. J.; Wilson, T. L.

First Ordinary and Physics IC. I.—1, Horne, D. G. (medal). 2, Donald, Heather R. 3, Phillips, Alison M. 4, King, J.; and McKenzie, C. II.—Binns, M. R.; Buckingham, R. G.; Catto, E. M.; Fulton, Janet M.; Gill, J.; Halliday, Cathleen I.; MacLennan, D. J.; McNab, J. M.; Nice, B. E.; Oag, Glenna M.; Oxley, D.; Persaud, L.; Richardson, Ann M.; Stewart, Marilyn G.; Stirling, R.; Wakefield, G. B.; Walker, Jean F.; Young, Elspeth, A.

Intermediate Honours Natural Philosophy and Physics II. I.—1, Kelly, R. B. (medal). 2, Campbell, I. A. 3, Cochrane, Anne. 4, Woodman, H. E. II.—Boulton, R. J.; Brown, J. R.; da Casa, Catherine; Cassels, I. G.; Cavilla, C. A.; Cross, Janette K. A.; Drysdale, N.; Eggleton, P. P.; Galloway, A. A. R.; Gellately, W.; Hay, K. A.; Irvine, J. M.; McEwan, R. S.; Martin, R. N. D.; Place, Jan McG.; Pratt, N. M.; Sinclair, J.; Sloan, Mary C.; Vass, D. G.; Wilson, R. A.; Woodward, C. A. W.; Thomson, A. M.

Final Honours Natural Philosophy and Physics III. I.—1, Watson, A. A. 2, Geissler, E. II.—3, Lowrie, W. 4, Kersley, L.; and Robertson, W. G.; 6, Finlayson, D. M. 7, Fraser, D. C. 8, Strang, J. F. 9, Anderson, N. J. 10, Roy, Marjory G.

Physics III Laboratory Course. I.—Watson, A. A.; Geissler, E.; Ridgway, M. G.; Robertson, W. G. II.—Lowrie, W.; Kersley, L.; Finlayson, D. M.; Fraser, D. C.; Strang, J. F.; Anderson, N. J.; Roy, Marjory G.; Halkett, A. M.; Doyle, T.; Kilpatrick, N. O.; MacEwan, J. F.; Wilkin, Elizabeth A.; Sutherland, A.; Hudson, Helen M.; McQuillan, Alison R.; Alexander, I. M.

Advanced Meteorology and Physics III. II.—Davren, N. J.; Kersley, L.; Kilpatrick, N. O.; Roy, Marjory G.

PHONETICS. Ordinary Course. I.—1, Laver, J. D. (medal); and McCowan, A. D. (medal). II.—3, Millar, Moira. 4, Bowman, Anne; and Cruickshank, Laura R. 6, Carwin, Patricia M. 7, Cairns, G. M.; Carrington, Winifred M.; Langdon, Phoebe; Stewart, J. M. W.; and Wilson, Catherine.

DEPARTMENT OF HISTORY AND LAW

ANCIENT (GREEK AND ROMAN) HISTORY. Ordinary Course. II.—1, Edwards, A. W. 2, McClements, D. E. 3, German, F. D. 4, Pearce, Felicity C. 5, McGreggor, B. 6, Kellas, D. J.; and Wellesley, Inga C. 8, Grant, J. N. 9, Weir, Margaret A. 10, Bryan, P. L.

Honours (1957-58 and 1958-59). Greek and Roman History as a compulsory subject for Honours in Classics. II.—1, Herring, D.; and Roy, J. 3, Wylie, J. V. C. 4, Reid, D. R. 5, Collins, Mary; and Sich, J. Caroline. 7, Sutherland, I. R. 8, McNeil, D. J.

Greek and Roman History as a special subject for Honours in Classics. I.—1, Roy, J. (medal). II —2, Reid, D. R. 3, Mackintosh, D. J.

Greek and Roman History as an optional subject for Honours in Archæology. II.—Wilson, Bridget A. V.

Roman History as an optional subject for Honours in Archæology. II.—Macgregor, Morna.

ECONOMIC HISTORY. First Ordinary Course. I.—Grant, Linda A.; Macdonald, Norma L. (class medal); Pole, James W.; Sharp, Margaret E. V.; Sinclair, Marjorie. II.—Ahmad, Lacey; Bruce, George D.; Caldicott, Alison

Class Merit-Lists (Faculty of Arts)

S. B.; Carmichael, Duncan McD.; Carnegie, Valerie; Chadwick, Michael A.; Cullingford, Robin A.; Fordyce, Fiona; Greene, Daniel; Lowe, Helen; Moraitis, E. L.

Second Ordinary Course. II.—Bates, J. M.; MacLean, Marion S.; Robb, G. S.

Honours Course. Special Subject: History of the Working Class Movement. I.—1, Robertson, W. G. 2, Gulvin, C.

BRITISH HISTORY. Ordinary Course. I.—1, Easton, J. D. (medal); and Munro, J. F. S. (medal). 3, Cameron, Helen W. **II.**—Andrews, J. N.; Blair Imrie, Dorothy; Bray, Penelope; Broadgate, R. G.; Cavanagh, Esther K.; Christison, D.; Danskin, J. S.; Donaldson, M. J.; Elgey, Judith M.; Elmy, K. D.; Fillmore, Margaret M.; Fleming, J. A.; Gilchrist, Irene M.; Gilmour, Valerie S. N.; Grieve, Elizabeth A.; Harkess, Lorna C.; Hope, R. C.; Howard, K. C.; Hutton, J. P.; Johnstone, D. D.; Johnstone, Gillian; Kay, Christian J.; Kinnear, Katherine T.; Laird, Janette M. P.; Lefley, J.; Letham, Myra E.; Llewellyn, Gwyneth; Mackintosh, Averil H.; Malone, J. A.; Mason, Tessa G.; Massa, Ann R.; Mavor, Mabel; Minnion, J. L.; Morrison, I. A.; Morrison, J. W.; Olson, Sondra C. (non-graduating); Pares, Catherine; Paterson, Lindsay; Purves, J. H.; Quigley, J.; Reid, D. A.; Reid, F.; Reilly, J. E.; Ross, Sheila M.; Schwandt, Susan (non-graduating); Smith, G. R.; Stenhouse, W. D.; Thornton, Lesley G.; Walker, I. C.

Honours Course II I.—Brown, J. (medal); Russell, A.; Smith, G.; Tyrell, A. **II.**—Aitken, Francis; Brown, C. A.; Clark, Fiona; Coates, T.; Davidson, J.; Davis, Priscilla; Goodall, A.; Groves, W. W.; Hitchman, Diana; Jervie, Alison; Lord, Miss E.; Macdougall, I.; McKail, Sheila; Nelson, Fiona, Reid, Katherine; Robbie, D. J.; Roberts, A. J. B.; Robertson, Elspeth; Stewart, I.; Williamson, S. R.; Wood, I. S.; Wright, Phyllis.

Industrialism and Politics 1895-1914. I.—Elton, Anne. **II.**—Bennett, B.; Lyle, Olive.

EUROPEAN HISTORY (800-1939). Ordinary Course. I.—1, McKay, W. R. (medal). 2, Wilson, G. R. 3, Little, H. M.; and Stewart, A. W. G. **II.**—Armitage, Judith E.; Balfour, Nicolette J.; Caldicott, Alison S. B.; Cook, J.; Coxon, A. B.; Derry, Ruth M.; Finlayson, T. J.; Fyall, Janice W.; Gascoin, Muriel C.; Graham, Nancy; Hogg, A. G.; Mackay, A. I. K.; Mull, Susanna H. (non-graduating); Read, J. L. W.; Robson, J. S.; Sayer, Anne M.; Sozi, M. K.; Thompson, R. W.; Watson, J. K. P.

IMPERIAL AND AMERICAN HISTORY. II.—Alexander, Alice A.; Bertram, J. C.; Black, A. G.; Boag, W. G. F.; Bowstead, Celia M.; Brown, G. R.; Davidson, J.; Gascoin, Muriel C.; Gelbspan, R. H.; Ladd, Carolyn; McKerchar, Marjory M.; Shannon, Brenda A.; Spar, Leona E.; Sweetser, Susan.

POLITICAL SCIENCE. I.—1, Russell, A. W. (prize). 2, Brown, T. 3, Goodall, A. 4, Smith, G. 5, Brown, C. A. 6, Capaldi, M.; and Leask, H. M.; **II.**—Aitken, Frances G.; Baird, W.; Bhatnagar, A. K.; Cairns, J. B.; Clark, A. J. G.; Clark, Fiona C.; Coates, T. H.; Crater, R. B.; Cutt, J.; Davidson, J.; Davis, Priscilla U.; Groves, W. W.; Hayles, N. R.; Hitchman, Diana M.; Lewis, K. W.; Lord, Miss E.; MacDougall, I.; McGilvray, J. W.; McKail, Sheila E. C.; Nelson, Fiona M. C.; Pares, Phyllis R.; Reid, Katherine A.; Rice, Angela F.; Robbie, D. J.; Roberts, A. F. B.; Robertson, Elspeth R.; Shearer, Dorothy A.; Stewart, I. F.; Tyrrell, A.; Wilson, R. M. A.; Wood, I. S.; Wright, Phyllis M.

PUBLIC LAW. II.—Edwards, R. A.

SCOTTISH HISTORY. Ordinary Course. I.—Johnstone, D. C. M. (medal). **II.**—Gregory, Julia O.; Harley, Mary M.; Weller, T. H. B.; Wilson, J. R.

Class Merit-Lists

Honours Course I. II.—Macphail, I. D.; McInnes, Isla J.; Cochrane, Jennifer M.

Honours Course II. I.—Budge, Ian (medal). **II.**—Williamson, S. R.

DEPARTMENT OF EDUCATION

EDUCATION. I.—Dixon, C. H.; McIntyre, D. I. (medal). **II.**—Bosomworth, Elizabeth F.; Brown, William K. F.; Louden, Richard C.; McAlister, Berra J.; Mackay, John W.; McMichael, Paquita M. J. (*née* Florey); McPherson, Ian G.; Martin, Elizabeth R.; O'Loan, John; Proudfoot, George R.; Berra J.; Mackay, John W.; McMichael, Paquita M. J. (*née* Florey); McPherson, Ian G.; Martin, Elizabeth R.; O'Loan, John; Proudfoot, George R.; Scott, Francis D.; Strang, Heather R.; Watson, Sandra M. M.; Wilson, Rachel M. B.

Nurse Tutor Course. Reid, Isabella T. W.

DEPARTMENT OF COMMERCE

ORGANISATION OF INDUSTRY AND COMMERCE. First Ordinary Course. I.—Macdonald, Norma L. (Darling Scholarship); and Payne, Frank R. (class medals); Greig, Robert. **II.**—Christiansen, Kjell; Gardiner, James; Thompson, Stewart; Forman, Charles; Coventry, Ian; Loewenstein, Victor; Aitken, Gordon; Schweizer, David L.; Villiers, Patrick; Sloan, William; Courts, Graham.

Second Ordinary Course. II.—London, John; Talbot, John; Bollins, David J.; Edwards, Gerald.

DEPARTMENT OF SOCIAL STUDY

ORGANISATION OF INDUSTRY AND COMMERCE. Second Half-Course. I.—Lees, Margaret J. **II.**—Marsh, Norah; Palmer, Douglas; Wood, Patricia; Robertson, Edwin; Barr, Ann; Skinner, Angela.

FACULTY OF SCIENCE

DEPARTMENT OF PURE SCIENCE

BACTERIOLOGY I. I.—Old, David C. (medal); Gemmell, Margaret. **II.**—Gibson, Lewis; Hart, Ronald; Hume, Valerie B. M.; Lee, Donald; Manson, Sheila Anne; Robertson, R. Mc.; Smith, Norma H.; Thomson, Janette F.; Williams, James F.; Wright, Shona.

BACTERIOLOGY II. Honours Course. II.—Philp, George; Somerville, Elspeth.

CHEMISTRY. Course I. I.—1, Drysdale, D. D. 2, Day, M. A. (Crum Brown Medal); and Horne, D. G. (class medal). 4, Henderson, J.; and McNeil, K. M. 6, Caldwell, A. D. 7, Cooper, I. L.; Musgrave, R. G.; and Proctor, A. R. 10, Donald, Heather R.; King, J.; and Phillips, Alison M. 13, Stewart, G. 14, Bain, Isobel C.; Contento, Isobel R.; and Duffus, J. H. 17, Anderson, T. B.; Baillon, A. H.; and Jones, R. I. L. 20, Gould, D.; McNab, J. M.; Montgomery, S. B.; and Nicholson, Fiona J. 24, Ellis, Janet R.; and Meiklejohn, Jillian M. M. **II.**—Balogun, R. A.; Beattie, Catherine N.; Bonnar, R. H. G.; Broderick, Gillian R.; Bullock, Caroline E.; Cordery, Alexandrena M.; Dalglish, T. W.; Davidson, J.; Delahunt, K. W.; Fraser, K. A.; Gill, J.; Green, G. L.; Halliday, Cathleen L.; Hamilton, T. S.; Hunter, A. J.; Levison, Eleanor A.; Low, D. G. D.; McDougall, T. D.; Macgregor, Jean M.; Macrae, C. J. D.; Mattocks, J. G.; Maylotte, D. H.; Metcalf, R. G.; Morrison, I. M.; Noble, P. B.; Oag, Glenna M.; Owusu, J. G.; Oxley, D.; Rae, P. M.; Richardson, N. G.; Rodgers, P. G.; Sellar, Valerie J.; Smith, J. K.; Somerville, Dorothy A.; Stirling, R.; Wilkie, Christina P.; Williamson, A. J.

Class Merit-Lists (Faculty of Science)

Course II. I.—1, Riddick, J. (medal). 2, Mcc, Hilary R. B. 3, Bews, A. M. 4, Gillies, W. 5, Robertson, R. M. 6, McLaren, Lilian. 7, Dick, M. N.; McLean, Janet N.; and Graham, Eilean D. 10, Fergusson, Kathleen H. **II.**—Carabine, M. D.; Craig, G. E.; Craig, J. B.; Cruttenden, Joan C.; Downie, Alison M.; Fairweather, R. M.; Ferguson, A. B.; Fraser, R. N.; Gibson, W. K.; Hamilton, A.; Hume, Valerie B. M.; Lancaster, F. H.; Lloyd, Gwendoline I.; Mackie, W.; Martin, R. N. D.; Maule, D. R.; Moffat, J. B.; Smith, Norma H.; Todd, R. B.; Trotz, U. O'D.

Course III. I.—1, Turner, J. M. C. (class medal). 2, Callander, D. D.; Robertson, Edna W.; Russell, W. I.; and Smith, M. 6, Hunter, T. F.; Laing, G. R. F.; Love, J.; and Whyte, J. L. 10, Colville, Moira B.; Ferguson, W. D.; Hampton, R. A. S.; and Seeyave, M. F. M. **II.**—Aitken, R. G.; Andrew, H. F.; Birrell, J.; Bradshaw, Hazel M.; Broomfield, Patricia; Dew, J. A.; Fleming, J. G.; Garriock, Elizabeth K.; Henderson, Sonia E. J.; Leaver, J. L.; Lochiel, A. C.; McDonald, A. D.; MacGregor, A. W.; McKinnon, D. M.; Maclean, A.; McNeill, W. H.; Maconochie, G. H.; Mitchell, J. P.; Naysmith, Patricia J.; O'Brien, K. M. P.; Peutherer, Margaret A.; Pollitt, Vivian; Seed, J. R.; Sim, A. K.; Sowerby, Julia M.; Stewart, D. M.; Syme, R. J.; Thomson, Eleanor M.; Walker, C. C.; Wishart, A. F.; Wishart, J. G.; Young, R.

GEOLOGY AND MINERALOGY I. Geology. I.—1, Macfarlane, A.; and Ross, I. C. (medallists). 3, Gillies, W. 4, McLeish, A. J. 5, Williamson, T. 6, Borrie, D. L.; Gould, D.; and More, Iris H. **II.**—9, Brown, Mabeth; Fraser, K. A.; and Millar, J. 12, McAdam, A. D. 13, Roberts, Helen B. 14, Edington, A. B.; Johnston, C. S.; Rowat, Marian H.; Urquhart, J. G.; and Warwick, R. R. G. 19, Dobbie, S. J.; and Pollitt, Vivian. 21, Hossack, J. R.; Jackson, J. E.; and Ross, Isabella S. 24, Burns, Isabella; Hamilton, A.; and Sibbald, A. 27, Casey, J.; Fairweather, R. M.; and Montgomery, A. 30, Forbes, I. M.; Gibson, W. K.; Gregory, R. P. G.; Hunter, C. K. H.; Mackie, W.; and Wortley, Anne.

Mining Students. II.—1, Watters, A. 2, Jamieson, E. D.

PRACTICAL GEOLOGY. I.—1, Gould, D. (medal). 2, Fraser, K. A.; McAdam, A. D.; and McLeish, A. J. **II.**—5, Johnston, C. S.; and More, Iris, H. 7, Macfarlane, A.; and Roberts, Helen B. 9, Fallas, A. L. 10, MacKinnon, D. M. 11, Clapperton, J. F.; and Maciver, W. K. 13, Ross, Isabella S.; and Wortley, Anne. 15, Leigh, B.; and Mackay, H. G. 17, Hunter, C. K. H. 18, Sinton, R. B. 19, Haddow, N.; Hossack, J. R.; Maciver, F. C.; and Ross, I. C.

Mining Students. II.—1, Jamieson, E. D. 2, Watters, A.

GEOLOGY FOR APPLIED SCIENCE. II.—1, Thomson, I. M. 2, Foot, D. L.; and Lee, P. C. 4, Borrisow, N. G.; Fraser, R. W.; Moir, I. W. M.; and Tranter, P. N. L. 8, Busby, J. A. 9, Fordyce, M. W.; McEwan, D.; and May, E. D. 12, Emtage, S. J.; and Kerr, A. J.

GEOLOGY II. I.—1, Wilson, J. B. (medal). 2, Higgins, R. H. 3, Milnes, A. G. **II.**—4, Dewar, G. J. 5, Ramsden, A. R. 6, Brown, A. G.; and Nice, B. E. 8, Gracie, A. J. 9, Hamilton, N. J.; and Scott, E. G. H. 11, Lawson, J. P. 12, Brumpton, Jean F. 13, MacDonald, Fiona I. 14, Krummei, G.

Practical Course. I.—1, Milnes, A. G. (medal). **II.**—2, Wilson, J. B. 3, Hamilton, N. J. 4, Higgins, R. H. 5, Scott, E. G. H. 6, Brown, A. G. 7, Dewar, G. J.; Krummei, G.; and Nice, B. E. 10, Gracie, A. J. 11, Masterton, W. D.; and Ramsden, A. R. 13, Burns, G. 14, Brumpton, Jean F. 15, MacDonald, Fiona I. 16, Lawson, J. P.

ECONOMIC GEOLOGY. I.—1, Dalziel, I. W. D. (medal). 2, Miller, Marjorie D. **II.**—3, Benfield, A. C. 4, Ritchie, A. 5, Montgomery, D. 6, Sutherland, R. F.

Class Merit-Lists

Mining Students. II.—1, Leckie, J. 2, Smith, G. M. 3, Duncan, I. T.; and McFarlane, J.

PHYSICS IV. I.—1, Bell, W. W. 2, Rae, A. I. M. 3, Anderson, J. N. II.—4, Hart, S. 5, Robertson, A. K. 6, Dougal, R. C. 7, Norbury, J. R.

DEPARTMENT OF AGRICULTURE

HISTORY OF BRITISH AGRICULTURE. I.—1, Steven, W. 2, Knox, A. J. II.—3, Bell, I. G. 4, Henderson, J. 5, Kinloch, J. 6, Sloan, R. 7, Hardie, M. 8, Percival, J. 9, Welsh, J. L. S. 10, Roan, R. K. 11, Davidson, J. C. 12, Geddes, K. J. 13, Hall, J. A. 14, Cheyne, P. D. 15, Edie, H. H.

CROP HUSBANDRY. I.—1, McLean, J. (More Prize and medal). II.—2, Lyons, W. 3, Forbes, W. A. 4, MacLeod, H. 5, Rogers, Nancy A. 6, Vallance, J. R.

ANIMAL HUSBANDRY. II.—1, Smith, A. W. (medal). 2, Munro, D. 3, Hodges, E. D.

COLONIAL AGRICULTURE. II.—1, Stewart, A. G. D. 2, Hepburn, J. 3, Hodges, E. D. 4, Anderson, R. D. 5, Hardie, J. A.

EXPERIMENTAL AGRICULTURE. II.—1, Dykes, A. A. 2, Smith, R. F. Y. 3, Chowdhury, R. K.

DEPARTMENT OF FORESTRY

FORESTRY II. II.—Asumang, J. K.; Campbell, D.; Clark, J. B.; Connor, F.; Horne, A. I. D.; Iyamabo, D. E.; Kennedy, N. D.; Rickford, E. N.

Advanced Mensuration. II.—Asumang, J. K.; Clark, J. B.; Connor, F.; Horne, A. I. D.; Iyamabo, D. E.; Karkanis, A. G.; Scambler, I. D.

FORESTRY I. II.—Boateng, P. E. K.; Borissow, N. G.; Busby, J. A.; Emtage, S. J.; Foot, D. L.; Fox, A. V.; Kamil, A. A.; Kerr, A. J.; Lee, P. C.; May, E. D.; Smith, R. Lorrain; Wood, G. H.

Forest Engineering I —1, Busby, J. A. 2, Lee, P. C. II —Boateng, P. E. K.; Borissow, N. G.; Emtage, S. J.; Foot, D. L.; Fox, A. V.; Kerr, A. J.; May, E. D.; Smith, R. Lorrain; Wood, G. H.

Forest Botany I.—Lee, P. C. II.—Borissow, N. G.; Busby, J. A.; Foot, D. L.; Fox, A. V.; Wood, G. H.

Forestry for Agriculture. I.—Munro, D. II.—Dykes, A. A.; Frost, B. St. J., Hardie, J. A.; Harvey, W. R. R.; Hepburn, J.; Hodges, E. D.; MacLachlan, J. D.; Smith, A. W.; Smith, R. F. Y.; Stewart, A. G. D.; Wishart, D.; Witney, B. D.

PHYSICS. II.—Owusu, J. G.; Dobson, J.; Bryden, J. O.

DEPARTMENT OF MINING

CHEMISTRY. Engineering and Mining. I.—1, Wattison, S. D. 2, Rae, P. C. 3, Murray, J. 4, Charters, J. S. T. II.—Galloway, A. J. B.; Leckie, G. G.; Monaghan, C. E.; Shivas, R. E.; Sutherland, N. M.

ORGANISATION OF INDUSTRY AND COMMERCE. II.—Leckie, John; Smith, G. M.; McFarlane, James.

DEPARTMENT OF ENGINEERING

APPLIED MECHANICS I AND II. I.—1, Tranter, P. N. L. (medal). 2, Roberts, J. W. 3, Shering, G. C. 4, Chamberlain, P. E. 5, Fekete, J. P. 6,

Class Merit-Lists (Faculty of Science)

Denbigh, P. N.; and Thomson, I. M. II.—Blair, J. R.; Broatch, R. D.; Charleston, R. S.; Fordyce, M. W.; Fraser, R. W.; Graham, D. W. G.; King, D. C.; McEwan, D.; Pirie, W. S.; Shore, W.; Smith, J. W. E.

ENGINEERING DRAWING I AND II. II.—Blair, J. R.; Chamberlain, P. E.; Charleston, R. S.; Graham, D. W. G.; Roberts, J. W.; Shering, G. C.; Tranter, P. N. L.

HEAT ENGINES I AND II. I.—1, Chamberlain, P. E. (medal). 2, Shering, G. C. 3, Fordyce, M. W. 4, Roberts, J. W. 5, Graham, D. W. G. II.—Blair, J. R.; Charleston, R. S.; Fekete, J. P.; Henderson, P.; King, D. C.; Pirie, W. S.; Ross, D. P.; Robertson, A. G. H.; Shore, W.; Stone, A. G.; Thomson, I. M.; Tranter, P. N. L.; Watson-Gandy, C. D. T.

ELECTRICAL TECHNOLOGY (for Mechanical and Electrical Engineers). I.—1, King, D. C. 2, Chamberlain, P. E.; and Shering, G. C. 4, Caldwell, H. A.; and Roberts, J. W. II.—Almond, J. D.; Blair, J. R.; Fekete, J. P.; Gibson, A. N.; Graham, D. W. G.; Kittelsen, K. E.; Lees, J.; Pirie, W. S.; Shore, W.; Smith, J. W. E.

ELECTRICAL TECHNOLOGY (for Civil Engineers and Mining). I.—1, Thomson, I. M. 2, Fordyce, M. W. II.—Charleston, R. S.; Fraser, R. W.; Tranter, P. N. L.

ELECTRICITY I. I.—1, Fekete, J. P. 2, Denbigh, P. N. 3, Shering, G. C. 4, Graham, D. W. G.; and King, D. C. II.—Ansari, M. A.; Baxter, B. L. H.; Cormack, R. J.; Kittelsen, K. E.; Lees, J.; Lightoller, B.; Shore, W.; Young, W. G. W.

CIVIL ENGINEERING DESIGN. Ordinary Course. II.—Bovill, D. I. N.; Clark, D. J.; Davidson, R.; Fairbairn, D. R.; Khan, S. Y.; Millar, W. K.; Sidhu, S. S.

Honours Course. II.—Clark, D. J.; Davidson, R.; Fairbairn, D. R.; Gunn, J. F. G.

MECHANICAL ENGINEERING DESIGN. Ordinary Course. II.—Liebing, A. P.; Seed, A. R.; Ward, I. C.

THEORY OF STRUCTURES. Ordinary Course. I.—1, Fairbairn, D. R. II.—Clark, D. J.; Crombie, R. M. A.; Davidson, R.; Halcro-Johnston, J. F.

Honours Course. II.—Clark, D. J.; Davidson, R.; Fairbairn, D. R.; Gunn, J. F. G.

THEORY OF MACHINES. Ordinary Course. I.—1, Wilson, J. G. II.—Addison, R. S.; Bonavia, P. C.; Ward, I. C.

Honours Course. II.—Liebing, A. P.; Seed, A. R.

CIVIL ENGINEERING PRACTICE. Ordinary Course. II.—Clark, D. J.; Davidson, R.; Fairbairn, D. R.

HEAT ENGINES III. Ordinary Course. I.—1, Montgomery, G. R. II.—Garg, S. C.; Seed, A. R.

Honours Course. II.—Seed, A. R.

STRENGTH OF MATERIALS. Ordinary Course. II.—Biswal, J. C.; Garg, S. C.; Liebing, A. P.; Singh, K. P.

Honours Course. II.—Bonavia, P. C.; Garg, S. C.

ELECTRONICS AND COMMUNICATIONS. Ordinary Course. I.—1, Nicolson, A. M. (medal). 2, Wilson, J. G. 3, Byars, W. A. II.—Dunbar, R. M.; Montgomery, G. R.

Honours Course. I.—1, Wallace, D. R. E. II.—Byars, W. A.

Class Merit-Lists

ADVANCED ELECTRICITY AND ELECTROMAGNETISM. Ordinary Course. I.—1, Nicholson, A. M. 2, Montgomery, G. R. II.—Sarson, W. C. T.; Wallace, D. R. E.; Wilson, J. G.

Honours Course. I.—1, Wilson, J. G. (medal). 2, Montgomery, G. R.; 3, Nicolson, A. M. II.—Byars, W. A.

HYDRAULICS. Ordinary Course. I.—1, Inglis, D. A. (non-graduation). 2, Singh, K. P. II.—Addison, R. S.; Biswal, J. C.; Mooney, W.; Reid, I. W.

SURVEYING II. I.—1, Fairbairn, D. R. 2, Clark, D. J. II.—Bovill, D. I. N.; Davidson, R.; Millar, W. K.

SOIL MECHANICS. I.—1, Fairbairn, D. R. II.—Clark, D. J.; Davidson, R.; Gunn, J. F. G.

NUCLEAR ENGINEERING. II.—Liebing, A. P.; Montgomery, G. R.

MECHANICAL ENGINEERING. Organisation of Industry and Commerce. I.—Pirie, W. S. II.—Henderson, Peter.

TECHNICAL MATHEMATICS I. I.—Manson, A. L.; Pearce, R. C. A.; Wattison, S. D.; Lucas, A. N.; Wilson, T. L.; Murray, J.; Leckie, G. G.; Charters, J. S. T.; Shivas, R. E.; Walker, J. A.; Galloway, A. J. B. II.—Brown, C. C.; Edwards, R. R. V.; Forehand, B. E. M.; Fraser, R. N.; Michael, J.; Monaghan, C. E.; Moodie, C. C.; Rae, P. C.; Wylie, R. J. M.

TECHNICAL MATHEMATICS II. I.—Fordyce, M. W.; Blair, J. R.; II.—Chamberlain, P. E.; Charleston, R. S.; King, D. C.; Pirie, W. S.; Tomar, S. S.; Tranter, P. N. L.

APPLIED MATHEMATICS A. I.—Clark, D. J. II.—Fairbairn, D. R.; Seed, A. R.

APPLIED MATHEMATICS B. I.—Montgomery, G. R.; Wilson, J. G.; Sarson, W. C. T.; Wallace, D. R. E. II.—Baxter, B. L. H.; Nicholson, A. M.; Richardson, D. J.; Wilson, F. T.

DEPARTMENT OF CHEMICAL TECHNOLOGY

BUSINESS ORGANISATION AND ELEMENTARY ACCOUNTING. I.—Campbell, P. G. (class medal). II.—Lochiel, A. C.; Maclean, A.; Wylie, J. A.; Buchan, M. H.; Stenhouse, J. I. T.; Mawer, D. J.

PHYSICS COURSE II. I.—Dick, M. N. II.—Craig, J. B.; Harvey, P. J. J.; Lancaster, F. H.; Moffat, J. B.; Todd, R. B.

ENGINEERING COURSE A. I.—Craig, J. B.; Todd, R. B. II.—Betton, J. M.; Dick, M. B.; Evans, E. V.; Glidden, J.; Harvey, P. J. J.; Inglis, R. T.; Lancaster, F. H.; McQue, J.; Romanis, G. A.

ENGINEERING COURSE B. II.—Buchan, M. H.; Campbell, P. G.; Lochiel, A. C.; Mawer, D. J.; Stenhouse, J. I. T.; Wylie, J. A.

TECHNICAL MATHEMATICS Ic. I.—Caldwell, A. D.; Hunter, A. J.; Millar, L. K. II.—Donaldson, I. A.; Jones, R. I. W.; Montgomery, I. D.; Scott, A. P.

TECHNICAL MATHEMATICS Iic. I.—Craig, J. B.; Harvey, P. J. J.; Dick, M. N.; Lancaster, F. H.; Todd, R. B.; Evans, E. V. II.—Calder, J. B.; Cook, J. D.; Inglis, R. T.; Romanis, G. A.

FACULTY OF MUSIC

COUNTERPOINT I. II.—Burton, Catharine A.; James, W.

HARMONY I. II.—Burton, Catharine A.

Class Merit Lists (Faculty of Music)

FORM I. II.—Apergis, Maxine T.; Burton, Catharine A.; Crawford, Anne M.; Madjd, Fozieh M.; Porter, James W.

HISTORY OF MUSIC I. II.—Burton, Catherine A.; Porter, James W.; Weston, Marie E.

CLASS MEDAL (2nd Year). Burton, Catharine A.

COUNTERPOINT II. II.—Baptie, Winifred M.; Ralls, Elizabeth A.

HISTORY OF MUSIC II. II.—Batchelor, Pamela A.; Hammond, M. A. Carolyn; King, Karen A.

ORCHESTRATION II. II.—Batchelor, Pamela A.; Hammond, M. A. Carolyn; Maguire, Fiona; Ralls, Elizabeth A.

COUNTERPOINT III. II.—Brydon, Roderick G. P.; Melville, Mairi; Prince, Ann.

FORM III. II.—Brydon, Roderick G. P.; Melville, Mairi.

HISTORY OF MUSIC III. II.—Brydon, Roderick G. P.; Melville, Mairi; Prince, Ann.

ORCHESTRATION III. I.—Brydon, Roderick G. P.

SCORE PLAYING III. II.—Brydon, Roderick G. P.

CLASS MEDAL (4th Year). Brydon, Roderick G. P.

UNIVERSITY OFFICIALS
AND STAFF

UNIVERSITY OFFICIALS AND STAFF

Date of
Institution.

Appointed.

Chancellor

1859 HIS ROYAL HIGHNESS THE PRINCE PHILIP, DUKE OF EDINBURGH, K.G.,
K.T., LL.D., F.R.S. 1952

Vice-Chancellor

1859 SIR EDWARD VICTOR APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D.,
LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S. 1948

Rector

1859 JAMES N. H. ROBERTSON-JUSTICE, Dr.Phil. 1957

Principal

1852 SIR EDWARD VICTOR APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D.,
LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S. 1948

Secretary

1918 CHARLES H. STEWART, J.P., M.A., LL.B., C.A. 1948

Deputy Secretary—

Assistant Secretaries—*L.* D. MACMILLAN, B.L., A.R.I.C.S.
J. MACPIERSON, D.F.C. M.A., LL.B.
R. MAXWELL YOUNG, T.D., B.L., S.S.C.
P. MCINTYRE, M.A.

Accountant—R. O. CURLE, C.A.

Assistant Accountant—D. I. CAMERON, B.L., C.A.

Law Agent—DAVID BOGLE, M.A., LL.B., W.S., 32 Charlotte Square.

Auditor—Sir JOHN L. SOMERVILLE, C.A., F.R.S.E., 37 Melville Street.

University Court

President—THE RECTOR, *Ex officio*.

THE PRINCIPAL	<i>Ex officio</i> .		
THE RIGHT HON. THE LORD PROVOST of Edinburgh	<i>Ex officio</i> .		
T. J. CARLYLE GIFFORD, M.A., LL.B., LL.D., W.S.		Assessor nominated by Chancellor	1959
HON. LORD CAMERON, D.S.C., Q.C., M.A., LL.B., LL.D., F.R.S.E., D.L.	Do.	do.	Rector
TREASURER D. M. WEATHERSTONE, M.C., T.D.	Do.	do.	Town Council
PROFESSOR R. N. ARNOLD, D.Sc., D.Eng., Ph.D., M.I.Mech.E., A.M.I.C.E.	Do.	elected by Senatus	1955
PROFESSOR D. TALBOT RICE, M.B.E., M.A., B.Sc., D.Litt.	Do.	do.	do.
PROFESSOR J. H. F. BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H., F.R.C.P.E., F.R.S.E.	Do.	do.	do.
PROFESSOR J. D. B. MITCHELL, LL.B., Ph.D.	Do.	do.	do.
PROFESSOR EMERITUS R. W. JOHNSTONE, C.B.E., M.A., M.D., LL.D., F.R.C.S.E., F.R.C.O.G.	Do.	do.	General Council
K. PATERSON BROWN, M.B., Ch.B., F.R.C.S.E.	Do.	do.	do.
A. F. GILES, M.A., LL.D.	Do.	do.	do.
SIR HUGH WATSON, M.A., LL.B., Deputy Keeper of Her Majesty's Signet	Do.	do.	do.

University Officials and Staff

Curators of Patronage

Appointed.

SIR EDWARD APPLETON, G.B.E., K.C.B., M.A., D.Sc., Sc.D., LL.D., Litt.D., F.R.C.S.E., F.R.S.E., F.R.S.	Elected by University Court	1958
PROFESSOR J. DREVER, M.A., F.R.S.E.	Do. do.	1958
PROFESSOR G. L. MONTGOMERY, T.D., Ph.D., M.D., F.R.F.P.S.G.	Do. do.	1956
THE RIGHT HON. SIR IAN A. JOHNSON-GILBERT, C.B.E., LL.D., Lord Provost	Do. Town Council	1957
COUNCILLOR LAWRENCE S. MILLER, M.A., LL.B.	Do. do.	1956
COUNCILLOR MRS BARBARA WOODBURN, J.P.	Do. do.	1956
COUNCILLOR NORMAN SMITH	Do. do.	1958

Secretary—G. I. L. SOMERVILLE, B.A., LL.B., W.S., N.P., 4 Albyn Place.

General Council

Officials

President	The Chancellor of the University.
Vice-Presidents	The Rector, The Principal, The Chancellor's Assessor The Rector's Assessor.
Convener of Business Committee	H. J. I. ROBBIE, M.A., Ph.D.
Secretary	
Registrar	CHARLES H. STEWART, J.P., M.A., LL.B., C.A.

Senatus Academicus

President—THE PRINCIPAL.

The other members of the Senatus Academicus are the Professors in the six Faculties ; and the following Readers and Lecturers :—

C. P. Stewart, Ph.D., D.Sc. ; A. Nisbet, M.A., F.R.S.E. ; D. Ward, M.A. ; A. Nelson, Ph.D., D.Sc., N.D.A., F.R.S.E. ; Rev. R. A. S. Barbour, M.C., M.A., B.D., S.T.M. ; W. F. Dickson, M.A., LL.B., S.S.C. ; Miss M. Dominica Legge, B.Litt., M.A. ; T. R. Bolam, M.Sc., D.Sc. ; C. Patterson, M.I.Mech.E., M.I.Mar.E. ; D. M. Wilson, B.Sc., Ph.D., M.I.Chem.E. ; Miss Mary Grierson, Mus.Doc. ; A. Rae Gilchrist, M.D., P.R.C.P.E., F.R.C.P. ; Miss M. A. Brown, M.A. ; K. L. Little, M.A., Ph.D. ; J. P. Mackintosh, B.A., M.A. ; Giles Robertson, M.A. ; J. Kyles, M.A. ; R. M. Sillitto, B.Sc., F.Inst.P.

Faculty of Divinity

Dean and Principal of New College—Rev. Professor J. H. S. BURLEIGH, M.A., B.D., B.Litt., D.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1583	Divinity	JOHN MCINTYRE, M.A., B.D., D.Litt.	1956	University Court.
1642	Hebrew and Semitic Languages	NORMAN WALKER PORTEOUS, M.A., D.D.	1937	University Court.
1694	Ecclesiastical History	JOHN HENDERSON SEAFORTH BURLEIGH, M.A., B.D., B.Litt., D.D.	1931	University Court.
1846	Biblical Criticism and Biblical Antiquities			University Court.
1933	Christian Dogmatics	THOMAS FORSYTH TORRANCE, M.B.E., M.A., B.D., D.Theol., D.Théol., D.D.	1952	University Court.
1933	Church History			University Court.
1933	New Testament Language, Literature and Theology	JAMES STUART STEWART, M.A., B.D., D.D., Chaplain to H.M. the Queen in Scotland.	1947	University Court.
1933	Old Testament Literature and Theology	JAMES BARR, M.A., B.D.	1955	University Court.
1939	Christian Ethics and Practical Theology	WILLIAM STRANG TINDAL, O.B.E., M.A., D.D.	1945	University Court.

Also members of the Faculty of Divinity :—

Rev. R. A. S. BARBOUR and Rev. A. C. CHRYNE.

Faculty of Law

Dean—Professor A. H. CAMPBELL, B.C.L., M.A., LL.M.

1707	Public Law	ARCHIBALD HUNTER CAMPBELL, B.C.L., M.A., LL.M.	1945	Crown.
1710	Civil Law	THOMAS BROWN SMITH, Q.C., D.C.J., B.C.L., M.A., F.B.A.	1958	Faculty of Advocates, and Curators. ¹

¹ For each of these Chairs the Faculty of Advocates send to the Curators the names of two persons of whom the Curators must choose one.

University Officials and Staff

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1719	Constitutional Law	JOHN DAVID BAWDEN MITCHELL, LL.B., Ph.D.	1954	Faculty of Advocates, and Curators. ¹
1722	Scots Law	GEORGE ALLISON MONTGOMERY, Q.C., M.A., LL.B.	1947	Faculty of Advocates, and Curators. ¹
1825	Conveyancing ²	GEORGE LOVAT FRASER HENRY, B.L., W.S., N.P.	1955	Curators, Deputy Keeper of Signet and W.S. Society. ³
1948	International Relations ⁴	ELIZABETH WISKEMANN, M.A., M.Litt.	1958	University Court.

The following also are members of the Faculty of Law:—The Professors of Economic Science, Ancient (Scottish) History and Palæography, Forensic Medicine, and Accounting and Business Method; M. R. McLarty, M.A.; and W. F. Dickson, M.A., LL.B., S.S.C.

Faculty of Medicine

Dean—Professor J. H. F. BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H., F.R.C.P.E., F.R.S.E.

1676	Botany	ROBERT BROWN, B.Sc., Ph.D., F.R.S.	1958	Crown.
1685	Medicine	KENNETH WILLIAM DONALD, D.S.C., M.A., M.D., D.Sc., F.R.C.P.	1959	Curators.
1685	Physiology	DAVID WHITTERIDGE, B.Sc., D.M., F.R.S.	1950	Curators.
1705	Anatomy	GEORGE JOHN ROMANES, B.A., Ph.D., M.B., Ch.B., F.R.C.S.E., F.R.S.E.	1954	Curators.
1726	Obstetrics and Gynæcology	ROBERT JAMES KELLAR, M.B.E., M.B., Ch.B., F.R.C.P., F.R.C.S. F.R.C.O.G.	1946	Curators.
1767	Natural History	MICHAEL MEREDITH SWANN, M.A., Ph.D.	1952	Curators.
1768	Materia Medica	WALTER LAING MACDONALD PERRY, O.B.E., M.D., D.Sc.	1958	Curators.
1803	Clinical Surgery	JOHN BRUCE, C.B.E., M.B., Ch.B., P.R.C.S.E.	1956	Crown.
1807	Forensic Medicine	DOUGLAS JAMES ACWORTH KERR, M.D., D.P.H., F.R.C.P.E., F.R.S.E.	1953	Crown.
1831	Surgical Science	MICHAEL FRANCIS ADDISON WOODRUFF, B.E.E., M.D., M.S., F.R.C.S., F.R.C.S.E., F.R.A.C.S.	1956	Curators.
1831	Pathology	GEORGE LIGHTBODY MONTGOMERY, T.D., Ph.D., M.D., F.R.F.P.S.G.	1954	Curators.
1898	Public Health and Social Medicine ⁵	JOHN HOWIE FLINT BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H., F.R.C.P.E., F.R.S.E.	1955	University Court.
1913	Bacteriology ⁶	ROBERT CRUICKSHANK, M.D., F.R.C.P., D.P.H.	1958	University Court.
1917	Tuberculosis ⁷	JOHN WENMAN CROFTON, M.A., M.D., F.R.C.P., F.R.C.P.E.	1952	University Court.
1919	Chemistry in Relation to Medicine	REGINALD BRETTAUER FISHER, M.A., B.Sc., D.Phil.	1959	University Court.
1919	Therapeutics ⁸	DERRICK MELVILLE DUNLOP, B.A., M.D., F.R.C.P.E., F.R.C.P.	1936	University Court.
1919	Psychological Medicine ⁹	ALEXANDER KENNEDY, M.D., F.R.C.P., F.R.C.P.E., F.B.Ps.S., D.P.M.	1955	University Court.
1931	Child Life and Health ¹⁰	RICHARD WHITE BERNARD ELLIS, O.B.E., M.A., M.D., F.R.C.P.E., F.R.C.P.	1946	University Court.

¹ For these Chairs the Faculty of Advocates send to the Curators the names of two persons of whom the curators must choose one.

² Endowed by the Society of Writers to the Signet.

³ The election is made by (1) two delegates from the Curators; (2) two from the Society of Writers to the Signet; and (3) the Deputy Keeper of the Signet.

⁴ Montague Burton Chair.

⁵ Bruce and John Usher Chair.

⁶ Endowed by the Royal Victoria Hospital Tuberculosis Trust.

⁷ Endowed by the Royal Edinburgh Hospital for Mental Disorders.

⁸ Robert Irvine Chair.

⁹ Christison Chair.

¹⁰ Edward Clark Chair.

University Officials and Staff

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1946	Dermatology ¹	GEORGE HECTOR PERCIVAL, M.D., Ph.D., D.P.H., F.R.C.P.E.	1946	University Court.
1947	Medical Radiology ²	ROBERT MCWHIRTER, M.B., Ch.B., F.R.C.S., F.F.R., D.M.R.E.	1947	University Court.
1947	Neurological Surgery ¹	NORMAN MCOMISH DOTT, C.B.E., M.B., Ch.B., F.R.C.S.E., F.R.S.E.	1947	University Court.
1947	Orthopædic Surgery ³	JOHN IVOR PULSFORD JAMES, M.B., M.S., F.R.C.S.	1958	University Court.
1947	Ophthalmology	GEORGE IAN SCOTT, M.A., M.B., Ch.B., F.R.C.S., F.R.S.E.	1954	University Court.
1951	Dental Surgery	JOHN BOYES, F.R.C.S.E., F.D.S.R.C.S., F.D.S.R.C.S.E.	1958	University Court.
1953	Veterinary Surgery ⁴	JAMES SPREULL ANDREW SPREULL, Ph.D., M.R.C.V.S.	1959	University Court.
1953	Veterinary Medicine ⁴	GEORGE FREDERICK BODDIE, B.Sc., M.R.C.V.S., F.R.S.E.	1953	University Court.
1953	Veterinary Hygiene and Preventive Medicine ⁴	ALEXANDER ROBERTSON, M.A., B.Sc., Ph.D., M.R.C.V.S., F.R.I.C., F.R.S.E.	1953	University Court.

The following also are members of the Faculty of Medicine:—The Professors of Natural Philosophy, Chemistry and Organic Chemistry; Dr Stedman, Dr C. P. Stewart, Dr Dainty, Mr D. M. Watt, Dr A. Rae Gilchrist, Dr A. Iggo, Dr Richard Scott, Dr F. Alexander.

Faculty of Arts

Dean—Professor JAMES DREVER, M.A., F.R.S.E.

1583	Humanity	IAN MCINTYRE CAMPBELL, M.A.	1959	Lords of Session, Curators, Faculty of Advocates, and W.S. Society. ⁵
1583	Greek	ARTHUR JAMES BEATTIE, M.A., F.R.S.E.	1951	
1583	Logic and Metaphysics	*	*	Curators.
1583	Moral Philosophy	WINSTON HERBERT FREDERICK BARNES, M.A.	1959	Curators.
1583	Mathematics	ALEXANDER CRAIG AITKEN, M.A., D.Sc., L.L.D., F.R.S.	1946	Curators.
1583	Natural Philosophy	NORMAN FEATHER, B.A., B.Sc., Ph.D., F.R.S.	1945	Curators.
1760	Rhetoric and English Literature	JOHN EVERETT BUTT, M.A., B.Litt.	1959	Crown.
1862	Sanskrit Language, Literature, and Philosophy, and Comparative Philology ⁶	*	*	Crown.
1871	Economic Science ⁷	ALAN TURNER PEACOCK, D.S.C., M.A.	1956	Curators and Merchant Company.
1876	Theory, History, and Practice of Education ⁸	JOHN GUSTAVE PILLEY, M.A.	1951	Curators.
1879	Fine Art ⁹	DAVID TALBOT RICE, M.B.E., M.A., B.Sc., D.Litt.	1934	University Court, and President of Royal Scottish Academy.
1882	Celtic Languages, Literature, History, and Antiquities ¹⁰	KENNETH HURLSTONE JACKSON, M.A., Litt.D., D.Litt.Celt., F.B.A.	1949	
1893	Modern History	DAVID HAYNE HORN, M.A., D.Litt.	1954	University Court.

¹ Grant Chair.

² George Harrison Law Chair.

⁵ Forbes Chair.

⁶ William Dick Chair.

⁷ The Judges of the Court of Session nominate two delegates, the Curators two, the Faculty of Advocates one, and the Society of Writers to the Signet one. These delegates appoint the Professor, who receives his Commission from the Curators.

⁸ Endowed by John Muir, of the Bengal Civil Service, and by a parliamentary vote.

⁹ The George Watson's and Daniel Stewart's Chair. Endowed by the Merchant Company of Edinburgh and other Governors of George Watson's and Daniel Stewart's Colleges.

¹⁰ Endowed by the Trustees of Rev. Dr Andrew Bell, and supplemented by the Educational Endowments Commission.

¹¹ Watson Gordon Chair; endowed by H. G. Watson, R.S.A., and Miss Frances Watson.

¹² Endowed by public subscription.

University Officials and Staff

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1901	Ancient History and Palaeography ¹	WILLIAM CROFT DICKINSON, M.C., M.A., D.Lit., LL.D.	1943	University Court.
1918	French Language and Romance Linguistics	DUNCAN MCMILLAN, Ph.D., Dip. de l'F.H.E.	1955	University Court.
1919	German	EUDO COLECESTRA MASON, M.A., Dr. Phil.	1951	University Court.
1919	Accounting and Business Method	DAVID STEEL ANDERSON, M.A., C.A.	1957	University Court. ³
1922	Natural Philosophy ⁴	NICHOLAS KEMMER, M.A., Dr.Phil., F.R.S.	1953	University Court.
1925	Prehistoric Archaeology ⁵	STUART PIGGOTT, B.Litt., D.Lit. Hum., F.B.A.	1946	University Court.
1925	Organisation of Industry and Commerce	NORMAN CHARLES HUNT, B.Com., Ph.D.	1953	University Court.
1931	Psychology	JAMES DREVER, M.A., F.R.S.E.	1944	University Court.
1931	Geography	JAMES WREFOED WATSON, M.A., Ph.D., F.R.S.C.	1954	University Court.
1947	English Language and General Linguistics ⁶	ANGUS MCINTOSH, M.A., A.M.	1948	University Court.
1948	Architecture ⁷	ROBERT HOGG MATTHEW, C.B.E., M.A., A.R.S.A., F.R.I.B.A., F.R.I.A.S.	1953	University Court.
1951	French Literature	FREDERICK CHARLES GREEN, M.C., M.A., Dr.Phil., Dr. Univ. Paris, Dr. Univ. Rennes, Dr. Univ. Grenoble	1951	University Court.
1954	Mediaeval History	DENYS HAY, M.A.	1954	University Court.
1956	Economic History	ALEXANDER JOHN YOUNGSON, M.A., D.Litt.	1958	University Court.

The following also are members of the Faculty of Arts :—The Professors of Civil Law, Constitutional Law, Hebrew and Semitic Languages, Public Law, International Relations, Music, Botany, Chemistry, Astronomy, Natural History, Geology, Ecclesiastical History ; and all full-time lecturers concerned mainly with the teaching of Arts students.

Faculty of Science

Dean—Professor E. L. HIRST, C.B.E., M.A., D.Sc., LL.D., F.R.S.

1713	Chemistry	TOM LEADBETTER COTTRELL, B.Sc., D.Sc.	1959	Curators.
1767	Natural History	MICHAEL MEREDITH SWANN, M.A., Ph.D.	1952	Curators.
1786	Astronomy	HERMANN ALEXANDER BRÜCK, D.Phil., D.Phil. Habil, Ph.D.	1957	Crown.
1790	Agriculture and Rural Economy	STEPHEN JOHN WATSON, C.B.E., M.Sc., D.Sc., F.R.I.C., F.R.S.E.	1944	Lords of Session, Curators, and University Court. ⁹
1868	Engineering ⁸	RONALD NATHAN ARNOLD, D.Sc., D.Eng., Ph.D., M.I.Mech.E., A.M.I.C.E.	1946	Crown.
1871	Geology ⁸	FREDERICK HENRY STEWART, B.Sc., Ph.D., F.R.S.E.	1956	Crown.
1919	Forestry	MARK LOUDEN ANDERSON, M.C., M.A., D.Sc., F.R.S.E.	1951	University Court.
1924	Mining ¹⁰	ROBERT MCADAM, B.Sc., Ph.D., M.I.Min.E., F.R.S.E.	1948	University Court.
1928	Animal Genetics ¹¹	CONRAD HAL WADDINGTON, C.B.E., M.A., Sc.D., D.Sc., F.R.S.	1947	University Court.
1947	Organic Chemistry ¹²	EDMUND LANGLEY HIRST, C.B.E., M.A., D.Sc., LL.D., F.R.S.	1947	University Court.
1955	Chemical Technology	KENNETH GEORGE DENBIGH, M.A., D.Sc., F.R.I.C., M.I.Chem.E., F.R.S.E.	1955	University Court.

Sir William Fraser Chair.

Endowed by subscriptions from members of the Edinburgh and Leith Chambers of Commerce, the Merchant Company of Edinburgh, and other bodies.

¹ In consultation with the Council of the Society of Accountants in Edinburgh.

Tait Chair ; endowed by public subscription. ⁸ Abercromby Chair. ⁹ Forbes Chair.

The Professor is elected by nine delegates, three chosen by the Judges of the Court of Session three by the Curators, and three by the University Court.

⁸ Endowed by Sir David Baxter.

¹⁰ James A. Hood Chair.

¹¹ Endowed by Sir Roderick Impey Murchison, Bart.

¹² Buchanan Chair.

¹³ Forbes Chair.

University Officials and Staff

The following also are members of the Faculty of Science:—The Professors of Botany, Natural Philosophy, Anatomy, Bacteriology, Pathology, Physiology, Mathematics, Geography, Psychology, Prehistoric Archaeology, Materia Medica, Chemistry in Relation to Medicine, Veterinary Hygiene and Preventive Medicine, and the Tait Professor of Natural Philosophy; The Directors of Studies in the Faculty of Science; Readers in the Faculty of Science; Dr L. M. Brown, Dr I. M. H. Etherington, Dr I. M. L. Hunter, Dr D. S. Stewart, Dr J. F. Wilkinson, Dr Kacser, Dr N. Macleod, Dr D. Taylor, Mr M. A. Knox, Dr D. L. Pursey, Dr Mott, Dr Hale, Dr M. R. W. Johnson, Mr Farvis.

Faculty of Music

Dean—Professor S. T. M. NEWMAN, M.A., D.Mus., F.R.C.O., F.T.C.L.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1839 Music		SIDNEY THOMAS MAYOW NEWMAN, M.A., D.Mus., F.R.C.O., F.T.C.L.	1941	University Court.

The following also are members of the Faculty of Music:—Professor A. C. Aitken, M.A., D.Sc., LL.D., F.R.S.; Professor N. Feather, B.A., B.Sc., Ph.D., F.R.S.; Rev. Professor J. S. Stewart, M.A., B.D., D.D., Chaplain to H.M. the Queen in Scotland; Mary G. Grierson, Mus.Doc.; J. Fairbairn, Mus.Doc.; Hans Redlich, Ph.D.; Kenneth Leighton, M.A., B.Mus., L.R.A.M.

Lecturers

All the Lectureships are in the patronage of the University Court with the following exceptions:—Gifford (Senatus Academicus), Gunning Victoria Jubilee (Faculty of Divinity), and Steven (Principal, Professor of Agriculture, and three representative members of the University Court).

Divinity

Date of Institution.	Subjects.	Lecturers.	Appointed.
1889	Natural Science, etc.*	Rev. Principal C. S. DUTHIE, M.A., B.D., D.D.	1946
1919	School of Theology	Rev. D. F. S. DICK, M.C., T.D., M.A., B.D.	1954
	Practical Theology	Rev. I. REID, B.A.	1958
		Rev. J. GRAY, M.A., B.D.	1956
1953	Church History	Rev. A. C. CHEYNE, M.A., B.D., B.Litt.	1958
		Rev. A. IAN DUNLOP, B.D. (part-time)	1957
1955	New Testament	Rev. R. A. S. BARHOOR, M.C., M.A., B.D., S.T.M. (Senior Lecturer)	1955
1958	Divinity and Christian Dogmatics	* (part-time)	

Law

1884	Evidence and Pleading	W. F. DICKSON, M.A., LL.B., S.S.C.	1954
1904	Administrative Law	M. R. MCLARTY, M.A.	1939
		C. H. STOUT, B.Com., Ph.D., A.M.T.P.I. (part-time)	1959
1929	Scots Law	D. MAXWELL, Q.C., M.A., LL.B.	1947
		R. R. TAYLOR, M.A., LL.B., Ph.D.	1947
		D. C. ANDERSON, Q.C., V.R.D., B.A., LL.B.	1947
		R. A. BENNETT, M.A., LL.B.	1955
		G. CAMPBELL H. PATON, M.A., LL.B. (Senior Lecturer)	1959
		J. V. M. SHIELDS, C.B.E., M.A., LL.B., Q.C. (Senior Lecturer)	1959
1940	Constitutional Law	V. S. MACKINNON, M.A., LL.B., LL.M.	1957
	Public Law	J. A. DICK, M.C., M.A., LL.B.	1953
	Conveyancing	J. G. S. CAMERON, M.A., LL.B., W.S.	1955
	Civil Law	T. G. I. HAMNETT, M.A., LL.B.	1959
1958	Law	H. MCN. HENDERSON, M.A., LL.B.	1958

Medicine

1885	Child Life and Health	H. P. TAIT, M.D., D.P.H., F.R.C.P.E. (Senior Lecturer)	1948
		J. W. FARQUHAR, M.D., F.R.C.P.E. (Senior Lecturer)	1952
		J. O. FORFAR, M.C., B.Sc., M.B., Ch.B., F.R.C.P.E., M.R.C.P., D.C.H. (Senior Lecturer)	1954
		JOHN THOMSON, M.D., D.P.H., D.C.H.	1947
		W. N. BOUG WATSON, M.B., Ch.B.	1959
		MARGARET METHVEN, M.A., M.B., Ch.B., D.P.M.	1951
		T. T. S. INGRAM, M.B., Ch.B., M.R.C.P.E., D.C.H.	1955
		MAVIS WAKEFIELD, M.B., Ch.B., M.R.C.P.E. (part-time)	1957
1894	Anatomy	R. G. INKSTER, M.A., M.D. (Reader)	1946
		R. C. CRAIG, M.B., Ch.B., F.R.C.S.E.	1937

* Reid Chair.

* Gunning Victoria Jubilee Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
1894	Anatomy (<i>contd.</i>)	HELEN S. BARRETT, M.B., Ch.B. H. W. Y. TAYLOR, M.A., B.Sc., M.B., Ch.B., D.T.M. & H. D. ROBERTSON, M.B., Ch.B., F.R.C.S.E., D.T.M. A. R. MUIR, M.D. (Senior Lecturer) J. B. KING, M.D., F.R.C.P.E., F.F.R., D.R. A. W. S. KERR, M.B., Ch.B. NORA CAMPBELL, M.B., Ch.B. D. ADAMS, B.D.S., B.Sc. K. KUCZYNSKI, M.B., Ch.B., F.R.C.S.E., (Senior Lecturer) ALAN PETERS, B.Sc., Ph.D. F. J. WRIGHT, M.A., M.D., F.R.C.P.E., F.R.C.P., D.T.M. & H. (Senior Lecturer)	1945 1947 1948 1951 1953 1953 1954 1958 1959 1958 1954
1898	Diseases of Tropical Climates		
1903	Applied Anatomy	ALEXANDER JOE, D.S.C., M.D., D.P.H., D.T.M. and H., F.R.C.P.E.	
1904	Infectious Diseases		
1907	History of Medicine	J. K. SLATER, O.B.E., M.D., F.R.C.P.E., F.R.S.E.	
1912	Clinical Neurology	ROBERT LEES, M.D., F.R.C.P.E.	
1919	Venereal Diseases	HELEN A. WRIGHT, M.B., Ch.B., D.P.H. (Senior Lecturer) J. P. DUGUID, B.Sc., M.D. (Senior Lecturer) J. H. BOWIE, M.B., Ch.B., F.R.C.P.E. (Senior Lecturer) JOYCE D. COGHLAN, B.Sc., Ph.D. J. F. WILKINSON, M.A., Ph.D. J. C. GOULD, B.Sc., M.B., Ch.B. B.D.S., (Senior Lecturer) R. R. GILLIES, M.B., Ch.B., D.P.H. T. B. M. DURIE, M.B., Ch.B. R. W. TONKIN, M.B., Ch.B. F. L. CONSTABLE, B.Sc., M.B., B.S. A. T. WALLACE, M.D., D.P.H. (Hon. Lecturer) A. F. MACCABE, M.D., D.P.H. (Hon. Lecturer)	
1920	Bacteriology	M. H. ROBERTSON, M.B., Ch.B. Miss J. M. McWILLIAM, M.B., Ch.B., D.P.H. J. D. SLEIGH, M.B., Ch.B. MARY McMILLAN, M.D., Ph.D., B.Pharm. (Honorary Lecturer) G. BOISSARD, B.Sc., M.B., B.S. A. G. C. RENWICK, M.B., Ch.B. R. H. A. SWAIN, M.A., M.D., M.R.C.S., L.R.C.P., ¹ (Reader)	1957 1957 1958 1959 1959 1959 1947 1946 1959 1947 1947 1948 1951 1953 1959
	Virology.	MARTHE VOGT, Dr. Med., Dr. Phil., Ph.D., F.R.S. (Reader) H. M. ADAM, M.B., Ch.B. (Senior Lecturer) T. B. B. CRAWFORD, B.Sc., Ph.D. R. P. STEPHENSON, B.Sc. R. B. BARLOW, M.A., B.Sc., D.Phil. R. F. OGILVIE, M.D., D.Sc., F.R.C.P.E., F.R.S.E. (Reader) J. DAVIDSON, M.B., Ch.B., F.R.C.P.E. (Senior Lecturer) A. F. J. MALONEY, B.Sc., M.B., Ch.B., F.R.C.P.E. (Senior Lecturer) A. WYNN WILLIAMS, M.D., D.C.P. (Senior Lecturer) A. D. BAIN, M.D. MARY K. MACDONALD, M.B., Ch.B., M.R.C.P.E. J. D. MCGREGOR, M.B., Ch.B. J. S. BARRETT, M.C., M.B., Ch.B. A. J. M. DRENNAN, M.B., Ch.B., F.R.C.P.E. (Honorary Lecturer)	1947 1947 1944 1949 1955 1935 1948 1953 1955 1950 1950 1950 1952 1954
1920	Biochemistry	EDGAR STEDMAN, Ph.D., D.Sc., F.R.S. (Reader) J. H. OTTAWAY, B.Sc., Ph.D., A.R.I.C., F.C.S. (Senior Lecturer) J. K. GRANT, B.Sc., Ph.D., F.R.I.C. (Senior Lecturer) W. N. M. RAMSAY, B.Sc., Ph.D. (Senior Lecturer) J. W. MINNIS, B.Sc., Ph.D. G. S. BOYD, Ph.D. H. J. CRUFT, Ph.D., A.R.I.C., A.H.W.C. A. RYLE, B.A., Ph.D.	1946 1959 1947 1947 1948 1951 1953 1959
1920	Materia Medica		
1920	Pathology		

¹ Lewis Cameron Lecturer.

² Lewis Cameron Teaching Fellow.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
	Pathology (<i>cont.</i>)	D. L. GARDNER, M.A., Ph.D., M.D., M.R.C.P.E.	1956
		A. E. STUART, M.B., Ch.B., Ph.D., M.R.C.P.E.	1956
		W. F. COULSON, B.Sc., M.B., Ch.B.	1955
		W. E. HUNT, M.A., B.M., B.Ch.	1956
		R. S. NAGLE, M.B., Ch.B., D.T.M. & H.	1957
		W. S. A. ALLAN, M.B., Ch.B., M.R.C.P.E.	1957
		A. A. SHIVAS, M.D., D.P.H. (Senior Lecturer)	1958
		I. I. SMITH, M.B., Ch.B.	1959
		J. W. BLACK, M.B., Ch.B.	1959
1920	Physiology	L. MARY PICKFORD, D.Sc., M.R.C.S., L.R.C.P. (Reader)	1939
		R. PASSMORE, M.A., D.M. (Reader)	1947
		M. H. DRAPER, M.B., B.S. (Senior Lecturer)	1952
		A. D. DEWAR, B.Sc., Ph.D.	1948
		J. A. WATT, B.A., M.B., Ch.B.	1950
		E. G. WALSH, M.A., B.Sc., B.Ch., M.D., M.R.C.P., D.T.M. & H. (Senior Lecturer)	1951
		A. IGGO, B.Sc., Ph.D.	1952
		R. M. GAZE, B.A., L.R.C.P. & S.E., D.Phil.	1955
		G. H. HAGGIS, M.A., Ph.D.	1956
		K. B. ROBERTS, M.A., M.B., B.S., D.Phil., M.R.C.S., L.R.C.P.	1956
1898	Public Health and Social Medicine	G. H. BEGGIE, M.A., Ph.D., M.B., Ch.B.	1956
		H. E. SEILER, M.D., D.P.H., F.R.C.P.E. (Senior Lecturer)	1946
		C. GORDON, O.B.E., M.Sc., Ph.D., F.R.S.E. (Senior Lecturer)	1952
		J. W. R. DOUGLAS, B.A., B.Sc., B.M., B.Ch. (Reader)	1953
		J. N. MANSBRIDGE, H.D.D., L.D.S., Ph.D. (Senior Lecturer)	1948
		B. M. HOBSON, B.Sc., Ph.D. (Senior Lecturer)	1948
		S. A. SKLAROFF, B.Sc.	1951
		F. M. MARTIN, B.A., Ph.D.	1955
		A. R. MILLS, M.R.C.S., L.R.C.P., D.P.H., D.T.M. & H.	1957
		ANN CARTWRIGHT, B.Sc.	1957
		DONALD CAMERON, M.B., Ch.B., D.P.H.	1957
		J. L. GILLORAN, M.B., Ch.B., D.P.H.	1957
		J. G. THOMSON, M.B., Ch.B., D.P.H.	1958
		G. D. FORWELL, M.B.Ch.B., Ph.D., M.R.C.P.E., D.I.H., D.P.H.	1959
1925	Psychological Medicine	R. BAILEY, M.B., Ch.B., F.R.C.P.E. (Honorary Lecturer, Mental Deficiency)	1932
		ELIZABETH ROBERTSON, M.A., M.B., Ch.B., F.R.C.P.E., D.P.M. (Honorary Lecturer)	1951
		T. A. MUNRO, M.D., F.R.C.P.E., D.P.M. (Honorary Senior Lecturer)	1955
		F. J. FISH, M.B., B.S., M.R.C.P., D.P.M. (Senior Lecturer)	1955
		J. DREWERY, M.A.	1956
		W. MCD. HARROWES, M.D., F.R.C.P.E., F.R.S.E., D.P.M. (Honorary Lecturer)	1956
		A. K. M. MACRAE, M.B., Ch.B., M.R.C.P.E., Dip. Psych. (Honorary Lecturer)	1956
		BETTY MAGILL, M.B., Ch.B., M.R.C.P.E., D.P.M. (Honorary Lecturer)	1956
		D. ROSS, M.B., Ch.B., F.R.F.P.S. (Honorary Lecturer)	1956
		J. W. AFFLECK, M.B., Ch.B., F.R.F.P.S.G., D.P.M. (Honorary Senior Lecturer)	1957
		G. M. HELL, M.B., Ch.B. (Honorary Lecturer)	1957
		A. B. HEGARTY, M.B., Ch.B., D.P.M., M.R.C.P.E. (Hon. Lecturer)	1957
		A. D. FORREST, M.B., Ch.B., D.P.M., M.R.C.P.	1957
		P. G. FAWCETT, M.B., B.S., D.P.M.	1959
		I. OSWALD, M.A., M.D.	1959
1925	Radiodiagnosis and Radiotherapy	E. SAMUEL, M.D., B.Sc., F.R.C.S., F.F.R., D.M.R.E. (Honorary Senior Lecturer)	1958
		D. W. LINDSAY, M.B., Ch.B., D.M.R.E. (Honorary Lecturer)	1958
		K. A. MACKENZIE, M.B., Ch.B., D.M.R. (Honorary Lecturer)	1958
1928	Therapeutics .	L. J. P. DUNCAN, B.Sc., M.B., Ch.B., M.R.C.P.E., M.R.C.V.S.	1955
		J. S. ROBSON, M.D., M.R.C.P.E. (Senior Lecturer)	1959
		ANNE T. LAMBIE, M.B., Ch.B., M.R.C.P., M.R.C.P.E.	1957
1929	Medicine :—Medicine	W. I. CARD, M.D., F.R.C.P.E., F.R.C.P. (Reader)	1948

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
1929	Medicine:—Medicine (<i>cont.</i>)	R. H. GIRDWOOD, M.D., Ph.D., F.R.C.P.E., F.R.C.P. (Reader)	1946
		R. W. D. TURNER, O.B.E., M.A., M.D., F.R.C.P.E., F.R.C.P. (Senior Lecturer)	1946
		J. A. STRONG, M.B.E., B.A., M.B., B.Ch., F.R.C.P.E., M.R.C.P. (Senior Lecturer)	1949
		J. INNES, M.D., F.R.C.P.E.	1949
		J. G. MACLEOD, M.B., Ch.B., F.R.C.P.E.	1950
		R. J. G. SINCLAIR, F.R.C.P.E.	1951
		J. RICHMOND, M.B., Ch.B., M.R.C.P.E., M.R.C.P.	1955
		J. A. SIMPSON, M.B., Ch.B., M.R.C.P., F.R.F.P.S., M.R.C.P.E. (Senior Lecturer)	1956
		W. SIRCUS, M.D., Ph.D., M.R.C.P., M.R.C.P.E.	1955
		M. B. MATTHEWS, M.A., M.D., M.R.C.P.	1955
		J. B. STANTON, M.A., M.B., B.Chir., M.R.C.P., M.R.C.P.E., D.P.M.	1955
		R. M. MARQUIS, M.B.E., M.B., Ch.B., F.R.C.P.E.	1955
		S. H. TAYLOR, B.Sc., M.B., Ch.B.	1959
		E. A. HARRIS, Ph.D., M.B., Ch.B., M.R.C.P.	1959
	Nutrition	A. P. MEIKLEJOHN, M.A., B.Sc., D.M., M.R.C.P. (Senior Lecturer)	1946
	Rheumatology	J. J. R. DUTHIE, M.B., Ch.B., F.R.C.P.E. (Senior Lecturer)	1946
		E. B. FRENCH, B.A., M.B., B.Ch., M.R.C.P., F.R.C.P.E. (Senior Lecturer)	1946
	Medicine for Dental Students	C. H. DAVIDSON, M.B., Ch.B., F.R.C.P.E.	1951
	Clinical Cardiology	A. RAF GILCHRIST, M.D., P.R.C.P.E., F.R.C.P. (Reader)	1949
1929	Mental Deficiency	J. R. BAILEY, M.B., Ch.B., F.R.C.P.E.	1932
1929	Surgery	I. S. R. SINCLAIR, M.B., Ch.B., F.R.C.S.E. (Senior Lecturer)	1953
		J. R. CAMERON, F.R.C.S.E.	1954
		A. I. S. MACPHERSON, Ch.M., F.R.C.S.E.	1954
		C. W. A. FALCONER, M.B., Ch.B., F.R.C.S.	1957
	Experimental Surgery	E. J. DELORME, M.D., F.R.C.S.(C.) (Senior Lecturer)	1952
	Urological Surgery	DAVID HAND, M.B., Ch.B., F.R.C.S.E., F.R.S.E. (Reader)	1946
	Pædiatric Surgery	J. J. MASON BROWN, O.B.E., M.B., Ch.B., F.R.C.S.E. (Reader)	1946
	Plastic Surgery	A. B. WALLACE, M.Sc., M.B., Ch.B., F.R.C.S.E. (Reader)	1946
	Thoracic Surgery	ANDREW LOGAN, M.A., M.B., Ch.B., F.R.C.S.E., F.R.C.S. (Reader)	1946
	Surgical Science	B. NOLAN, M.B., Ch.B., F.R.C.S.	1959
		D. MICHIE, M.A., D.Phil. (Senior Lecturer)	1958
		J. G. HOWARD, M.B., B.Sc., Ph.D.	1958
	Clinical	A. N. SMITH, M.B., Ch.B., F.R.C.S.E.	1959
1930	Orthopædic Surgery	I. LAWSON DICK, M.D., Ch.M., F.R.C.S.E.	1951
		D. I. SAVILL, M.B., Ch.B., F.R.C.S.E.	1954
		G. P. MITCHELL, M.C., M.B., Ch.B., F.R.C.S.E. (part-time)	1957
		JOHN CHALMERS, M.B., Ch.B., F.R.C.S.	1958
		J. H. S. SCOTT, F.R.C.S., (Senior Lecturer)	1959
1935	Pathology of Diseases of Children	AGNES R. MACGREGOR, M.D., F.R.C.P.E. (Reader)	1935
1940	Tuberculosis	N. W. HORNE, M.B., Ch.B., F.R.C.P.E. (Hon. Lecturer)	1952
		J. D. ROSS, M.B., Ch.B., F.R.C.P.E., M.P.H. (Hon. Lecturer)	1952
		J. WILLIAMSON, M.B., Ch.B., M.R.C.P.E. (Hon. Lecturer)	1956
1944	Forensic Medicine	F. S. FIDDES, O.B.E., M.D. (Senior Lecturer)	1944
		H. V. STREET, B.Sc., M.Sc., A.R.I.C., F.R.I.C., M.I. Biol.	1959
1946	Dermatology	P. W. HANNAY, M.B., Ch.B. F.R.C.P.E.	1946
		J. B. MACMILLAN, M.B., Ch.B. F.R.F.P.S., (Honorary Lecturer)	1959
1946	Obstetrics and Gynæcology	G. DOUGLAS MATTHEW, M.B., Ch.B., F.R.C.S.E. F.R.C.O.G. (Reader)	1946
		A. F. ANDERSON, B.Sc., M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1947

Stuart Hall Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
	Obstetrics and Gynaecology (contd.)	C. D. KENNEDY, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1949
		F. J. SCANDRETT, B.Sc., Ph.D., A.R.I.C.	1954
		D. J. M. IRVINE, M.B., Ch.B., M.R.C.O.G. (part-time)	1954
		J. C. H. DUNLOP, B.A., B.M., B.Ch., M.R.C.O.G. (Hon. Lecturer)	1955
		RACHEL B. MACKAY, M.D.	1957
		P. R. MYRSCOUGH, M.B., Ch.B., M.R.C.O.G., F.R.C.S.E. (part-time)	1958
	Gynaecological Endocrinology	T. N. MACGREGOR, M.D., M.R.C.P.E., F.R.C.S.E., F.R.C.O.G., F.R.S.E.	1947
1946	Anaesthetics ¹	JOHN GILLIES, C.V.O., M.C., M.B., Ch.B., F.R.C.P.E., F.R.C.S.E., F.F.A.R.C.S., F.F.A.R.A.C.S. (Reader)	1946
1946	Clinical Chemistry	C. P. STEWART, Ph.D., D.Sc. (Reader)	1946
		S. L. TOMPSETT, B.Sc., Ph.D., D.Sc., F.R.I.C. (Senior Lecturer)	1949
		J. D. CROMBIE, B.Sc., M.B., Ch.B., D.P.H.	1950
		L. H. EASON, B.Sc., Ph.D. (Senior Lecturer)	1950
		R. KAPPELLER-ADLER (Mrs), Ph.D., D.Sc.	1951
		P. C. JOCELYN, M.A., D.Phil.	1954
		S. C. FRAZER, M.B., Ch.B., B.Sc., Ph.D. (Senior Lecturer)	1955
		F. ALBERT-RECHT, M.B., Ch.B.	1956
1949	Dentistry :—		
	Dental Surgery and Pathology and Radiology	A. R. BRADSHAW, L.D.S.	1950
	Operative Dental Surgery	W. P. BAYENDINE, O.B.E., L.D.S. (Senior Lecturer)	1950
		W. WATERSTON, L.R.C.P. and S.E., L.D.S.	1951
		C. E. CHAPMAN, H.D.D., L.D.S.	1953
		D. M. MCGIBBON, L.D.S.	1950
	Dental Mechanics and Prosthetics	D. M. WATT, F.D.S., H.D.D., L.D.S. (Senior Lecturer)	1949
		A. R. MACGREGOR, F.D.S., L.D.S.	1954
		MALCOLM GEDDES, L.D.S.	1954
	Orthodontics	G. B. HOPKIN, H.D.D., D.D.O., L.D.S. (Senior Lecturer)	1952
		D. A. DIXON, L.D.S., F.D.S., D.D.O.	1956
	Dental Anatomy and Histology	C. H. KEMBALL, F.D.S., H.D.D., D.D.S., D.D.O., F.R.S.E. (Senior Lecturer)	1949
		J. K. PATERSON, L.D.S.	1952
	Periodontal Diseases	G. S. BEAGRIE, F.D.S., L.D.S.	1951
		J. W. GALLOWAY, F.D., L.R.C.P. and S.E., L.D.S. (Honorary Lecturer)	1959
	Extractions under General Anaesthesia	P. J. B. DYCE, L.R.C.P. and S.E., F.D.S., H.D.D., L.D.S. (Senior Lecturer)	1951
		G. M. ROSE, L.R.C.P. and S.E., L.D.S., D.A. (Senior Lecturer)	1951
	Oral Surgery	W. D. MACLENNAN, L.R.C.P. and S.E., L.D.S., H.D.D., F.D.S. (Hon. Lecturer)	1953
	Local Analgesia	A. E. DUVAL, F.D.S., H.D.D., L.D.S.	1952
	Preventive Dentistry	C. P. WALLIS, B.Sc., L.D.S.	1954
	Dental Economics	M. C. K. FINLAYSON, L.R.C.P. and S.E., F.D.S., L.D.S.	1955
	Conservative Dental Surgery	D. BROW, F.D.S.	1950
	Dental Metallurgy	R. C. HOWIE, B.Sc., Ph.D., A.H.-W.C., F.R.I.C., F.I.M. (Hon. Lecturer)	1957
1950	Neurological Surgery	F. J. GILLINGHAM, M.B.E., M.B., B.S., F.R.C.S.E., F.R.C.S. (Senior Lecturer)	1950
1951	Veterinary Medicine and Surgery :—		
	Clinical Veterinary Medicine	C. B. DAVIDSON, M.R.C.V.S.	1951
		A. R. WITHERS, B.Sc., M.R.C.V.S. (Senior Lecturer)	1953
		W. MACLENNAN, M.R.C.V.S. (Senior Lecturer)	1958
		A. W. MITCHELL, M.R.C.V.S.	1959
	Meat Inspection	J. NORVAL, M.R.C.V.S.	1951
	Poultry Diseases	G. FRASER, B.Sc., Ph.D., M.R.C.V.S.	1953
	Veterinary Anatomy	TOM GRAHAME, T.D., F.R.C.V.S., F.R.S.E. (Reader)	1951
		P. G. D. MORRIS, M.A., M.R.C.V.S.	1951
		J. G. SPEED, M.R.C.V.S.	1951
		J. A. TAYLOR, F.R.C.V.S. (Senior Lecturer)	1951
		W. M. STOKOE, B.Sc., Ph.D., M.R.C.V.S.	1958

¹ Simpson Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
	Veterinary Bacteriology	A. W. TAYLOR, Ph.D., D.Sc., M.R.C.V.S. (Senior Lecturer)	1952
		R. BURROWS, B.Sc., M.R.C.V.S.	1953
		J. E. PHILLIPS, B.Sc., M.R.C.V.S.	1951
	Veterinary Hygiene	G. S. FERGUSON, B.Sc., M.R.C.V.S., D.V.S.M. (Senior Lecturer)	1951
		A. W. CHALMERS, M.R.C.V.S. (Senior Lecturer)	1955
		H. PAVER, B.Sc., Ph.D., A.R.I.C.	1951
		I. S. ROBERTSON, B.Sc.	1953
		J. E. WILSON, B.Sc., M.R.C.V.S., D.V.M. & S., F.R.S.E. (part-time)	1956
		J. P. MAULE, M.A., Dip. Agric., A.I.C.T.A., F.R.S.E. (part-time)	1956
		E. W. MOODIE, B.Sc., Ph.D., M.R.C.V.S.	1957
		T. GRAHAM-MARR, B.Sc., M.R.C.V.S.	1958
		J. A. A. WATT, B.Sc., Ph.D., M.R.C.V.S. (Honorary Lecturer)	1958
		A. J. MACKENZIE-STUART, B.A., LL.B.	1953
	Veterinary Jurisprudence	W. W. GREGOR, M.R.C.V.S.	1951
		E. A. McPHERSON, M.R.C.V.S., M.Sc. (Senior Lecturer)	1951
	Veterinary Medicine	H. SCOTT McTAGGART, B.A., B.Sc., M.R.C.V.S.	1955
		J. T. STAMP, D.Sc., M.R.C.V.S., F.R.S.E. (Hon. Lecturer)	1956
		I. S. BEATTIE, B.Sc., M.R.C.V.S. (Senior Lecturer)	1951
	Veterinary Pathology	K. W. HEAD, B.Sc., M.R.C.V.S.	1951
		J. B. M. GELLATLY, B.Sc., M.R.C.V.S.	1953
		J. C. WHITNEY, M.R.C.V.S.	1956
	Veterinary Pharmacology	F. ALEXANDER, Ph.D., D.Sc., M.R.C.V.S. (Reader)	1952
	Veterinary Physiology	F. J. ELLIOTT, M.Sc., Ph.D., F.R.I.C., F.R.S.E. (Senior Lecturer)	1951
		H. LUNDY, B.Sc.	1956
		J. F. LAMB, M.B., Ch.B., B.Sc.	1958
		J. W. BURGESS, M.R.C.V.S. (Senior Lecturer)	1951
1958	Ophthalmology	J. C. WILSON, B.Sc., M.R.C.V.S.	1953
		J. A. FRASER, B.Sc., M.R.C.V.S.	1957
		B. A. BEMBRIDGE, M.D., D.O.M.S. (Hon. Lecturer)	1958
		N. L. STOKOE, M.B., Ch.B., D.O., F.R.C.S.E., F.R.A.C.S.	1959

General Practice Teaching Unit

R. SCOTT, M.D., D.P.H. (Reader)	1952
D. W. MACLEAN, M.B., Ch.B. (Lecturer)	1953
DUNCAN H. McVIE, M.B., Ch.B., D.Obst.R.C.O.G. (Lecturer)	1953
JANE E. PATERSON, M.A., M.S., A.M.I.A. (Lecturer)	1952
J. WALKER, M.D.	1959
LOWELL LAMONT, M.A., M.B., Ch.B. (part-time Lecturer)	1958
S. LIPETZ, M.D. (part-time Lecturer)	1958
J. E. MARGARET MUNRO, M.B., Ch.B., D.P.H. (part-time Lecturer)	1958
W. P. THOMSON, L.R.C.P. and S.E. (part-time)	1959
D. S. COWNIE, M.D. (part-time Lecturer)	1959
I. H. STOKOE, M.D., M.R.C.P. M.R.C.P.E. (part-time Lecturer)	1959
A. C. McLAREN, T.D., M.B., Ch.B., M.R.C.P. (part-time Lecturer)	1959
I. S. McROBBIE, M.B., Ch.B., D.Obst.R.C.O.G.	1959

Medical Physics Unit

J. R. GREENING, B.Sc., Ph.D., F.Inst.P. (Director, Senior Lecturer)	1957
C. A. MURISON, M.A., Ph.D., F.Inst.P. (Lecturer)	1947
D. C. SIMPSON, B.Sc., Ph.D. (Lecturer)	1956
ELIZABETH CAMPBELL, B.Sc. (Lecturer)	1957
P. TOTHILL, B.Sc., A.Inst.P.	1958

Clinical Teaching Staff

Royal Infirmary.

Medicine :—

Physicians-in-Charge—

Professor D. M. DUNLOP, B.A., M.D., F.R.C.P.E., F.R.C.P.	1936
Professor K. W. DONALD, D.S.C., M.A., M.D., D.Sc., F.R.C.P.	1959
A. RAE GILCHRIST, M.D., F.R.C.P.E., F.R.C.P.	1939
T. R. R. TODD, M.D., F.R.C.P.	1941
J. K. SLATER, O.B.E., M.D., F.R.C.P.E., F.R.S.E.	1949
J. D. S. CAMERON, C.B.E., T.D., M.D., F.R.C.P.E., M.R.C.P.	1954
R. M. MURRAY-LYON, M.D., F.R.C.P.E.	1955

University Officials and Staff

Medicine (cont.)

Appointed.

Physicians—

W. L. LAMB, T.D., M.B., Ch.B., F.R.C.P.E.	1936
J. G. M. HAMILTON, M.B., Ch.B., F.R.C.P.E.	1939
J. HALLIDAY CROOM, B.A., M.B., Ch.B., F.R.C.P.E.	1946
C. KELMAN ROBERTSON, M.D., D.P.H., F.R.C.P.E.	1946
D. M. F. BATTY, M.B., Ch.B., F.R.C.P.E.	1946
J. INNES, M.D., F.R.C.P.E.	1949
H. J. S. MATTHEW, M.B., Ch.B., F.R.C.P.E.	1950
R. M. MARQUIS, M.B.E., M.B., Ch.B., F.R.C.P.E.	1955
J. D. MATTHEWS, B.A., M.B., Ch.B., M.R.C.P.E.	1955

Associate Physicians—

R. H. GIRDWOOD, M.D., Ph.D., F.R.C.P.E., F.R.C.P.	1951
J. S. ROBSON, M.D., M.R.C.P.E.	1959

Senior Registrars—

A. W. M. SMITH, M.B., Ch.B., M.R.C.P.E.	1955
K. SINCLAIR, M.B., Ch.B., M.R.C.P.E., M.R.C.P.	1955
J. McC. MURDOCH, M.R.C.P.E., F.R.F.P.S.G.,	1956
A. DOIG, M.B., Ch.B., M.R.C.P.E., M.R.C.P.	1959

Honorary Senior Registrars—

L. J. P. DUNCAN, B.Sc., M.B., Ch.B., M.R.C.P.E., M.R.C.V.S.	1955
ANNE T. LAMBIE, M.B., Ch.B., M.R.C.P., M.R.C.P.E.	1957
M. F. OLIVER, M.D., F.R.C.P.E.	1957
J. RICHMOND, M.B., Ch.B., M.R.C.P.E., M.R.C.P.	1958

Surgery :—

Surgeons-in-Charge—

Professor JOHN BRUCE, C.B.E., M.B., Ch.B., P.R.C.S.E.	1956
Professor M. F. A. WOODRUFF, B.E.E., M.D., M.S., F.R.C.S., F.R.C.S.E., F.R.A.C.S.	1957
R. L. STEWART, M.B., Ch.B., F.R.C.S.E.	1944
W. A. D. ADAMSON, M.B., Ch.B., F.R.C.S.E.	1953
A. I. S. MACPHERSON, Ch.M., F.R.C.S.E.	1954
J. R. CAMERON, F.R.C.S.E.	1939

Surgeons—

E. L. FARQUHARSON, M.D., F.R.C.S.E., F.R.C.S.	1946
J. S. JEFFREY, M.A., M.D., F.R.C.S.E.	1946
T. I. WILSON, M.B., Ch.B., F.R.C.S.E.	1946
H. W. PORTER, M.B., Ch.B., F.R.C.S.E.	1946
J. A. ROSS, M.B.E., M.D., F.R.C.S.E.	1947
I. S. R. SINCLAIR, M.B., Ch.B., F.R.C.S.E.	1954
D. MCINTOSH, M.D., F.R.C.S.E., F.R.C.S.	1954

Senior Registrars—

I. C. S. KNIGHT, M.B., Ch.B., F.R.C.S.E.	1954
W. A. T. ROBB, M.B., Ch.B., F.R.C.S.E.	1955
T. J. MCNAIR, M.B., Ch.B., F.R.C.S.E., F.R.C.S.	1955
B. NOLAN, M.B., Ch.B., F.R.C.S.	1959
I. C. K. TOUGH, M.B., Ch.B., B.Sc., F.R.C.S.E.	1959

Orthopædic Surgery :—

Surgeon-in-Charge—

Professor J. I. P. JAMES, M.B., M.S., F.R.C.S.	1958
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Surgeons—

I. LAWSON DICK, M.D., Ch.M., F.R.C.S.E.	1951
D. L. SAVILL, M.B., Ch.B., F.R.C.S.E.	1951
G. P. MITCHELL, M.C., M.B., Ch.B., F.R.C.S.E.	1958

Senior Registrars—

R. B. DUTHIE, Ch.M., F.R.C.S.	1955
G. SLEE, M.B., Ch.B., F.R.C.S., M.Ch.Orth.	1956
D. H. McMILLAN, M.B., Ch.B., F.R.C.S.	1957

Surgical Neurology (including Neuro-Surgery Unit at Bangour Hospital) :—

Professor and Surgeon-in-Charge—

Professor NORMAN M. DOTT, C.B.E., M.B., Ch.B., F.R.C.S.E., F.R.S.E.	1931
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Senior Lecturer and Surgeon—

F. J. GILLINGHAM, M.B.E., M.B., B.S., F.R.C.S.E., F.R.C.S.	1949
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Surgeon—

P. HARRIS, F.R.C.S.E., M.R.C.P.E.	1955
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Neurologists—

KATE HERMANN, M.D., L.R.C.P. and S.E.	1953
W. S. WATSON, M.D., D.P.M., F.R.C.P.E.	1953

Senior Registrar—

J. F. SHAW, F.R.C.S.	1958
J. J. MACCABE, F.R.C.S.E.	1959

University Officials and Staff

Obstetrics and Gynaecology :—

Appointed.

Obstetricians and Gynaecologists-in-Charge—

Professor R. J. KELLAR, M.B.E., M.B., Ch.B., F.R.C.P., F.R.C.S., F.R.C.O.G.	1946
JOHN STURROCK, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1932
C. D. KENNEDY, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1934

Obstetricians and Gynaecologists—

W. A. LISTON, M.C., T.D., B.A., M.B., Ch.B., F.R.C.S.E., F.R.C.P.E., F.R.C.O.G.	1944
G. DOUGLAS MATTHEW, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1946
W. D. A. CALLAM, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1947
D. J. M. IRVINE, M.B., Ch.B., M.R.C.O.G.	1954
PHILIP R. MYERSCOUGH, M.B., Ch.B., M.R.C.O.G., F.R.C.S.E.	1958
MORTON G. PEARSON, M.B., Ch.B., F.R.C.S., M.R.C.O.G.	1958

Associate Obstetrician and Gynaecologist—

J. C. H. DUNLOP, B.A., B.M., B.Ch., M.R.C.O.G.	1956
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Senior Registrars—

T. L. ADAMSON, M.B., Ch.B., M.R.C.O.G.	1951
J. D. O. LOUDON, M.B., Ch.B., F.R.C.S.E., M.R.C.O.G.	1958
I. M. DUTHIE, M.B., Ch.B., M.R.C.O.G.	1958

Anæsthetics :—

Director—

JOHN GILLIES, C.V.O., M.C., M.B., Ch.B., F.R.C.P.E., F.R.C.S.E., F.F.A.R.C.S., F.F.A.R.A.C.S., D.A.	1946
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Anæsthetists—

SHEINA WATERS, M.B., Ch.B., F.F.A.R.C.S., D.A.	1957
FRANK HOLMES, L.R.C.P. and S.E., F.F.A.R.C.S., D.A.	1948
H. W. C. GRIFFITHS, M.B., Ch.B., D.A.	1947
J. D. ROBERTSON, M.D., F.R.C.P.E., F.F.A.R.C.S., D.A.	1955
A. S. BROWN, M.B., Ch.B., F.F.A.R.C.S., D.A.	1957
A. H. B. MASSON, M.B., Ch.B., F.F.A.R.C.S., D.A.	1956
A. M. MCKINLAY, L.R.C.P. and S.E., L.D.S., D.A., F.F.A.R.C.S.	1956
M. C. MACQUEEN, M.B., Ch.B., D.A., F.F.A.R.C.S.	1956
D. B. SCOTT, M.D., F.F.A.R.C.S.	1956

Senior Hospital Medical Officer :—

G. H. REA, M.B., Ch.B., F.F.A.R.C.S., D.A.	1952
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Senior Registrars :—

R. T. PETTIGREW, M.B., Ch.B., F.F.A.R.C.S.	1957
K. B. HOLLOWAY, M.B., Ch.B., D.A., F.F.A.R.C.S.	1957
M. B. YORSTON, M.B., Ch.B., D.A.	1958

Dermatology :—

Physicians-in-Charge—

Professor G. H. PERCIVAL, M.D., Ph.D., D.P.H., F.R.C.P.E.	1936
G. A. G. PETERKIN, M.B.E., M.B., Ch.B., F.R.C.P.E.	1953

Physician—

P. W. HANNAY, M.B., Ch.B., F.R.C.P.E.	1948
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Senior Registrar—

J. B. MACMILLAN, M.B., Ch.B., F.R.F.P.S.	1955
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Ophthalmology :—

Surgeons-in-Charge—

Professor G. I. SCOTT, M.A., M.B., Ch.B., F.R.C.S.	1953
J. R. PATERSON, M.B., Ch.B., F.R.C.S.E.	1947

Surgeons—

J. MACASKILL, M.B., Ch.B., F.R.C.S., D.O.M.S.	1947
C. R. S. JACKSON, M.A., B.M., B.Ch., F.R.C.S.E., D.O.M.S.	1953
B. A. BIRMINGHAM, M.D., D.O.M.S. (Lecturer in Ocular Pathology)	1958
N. L. STOKOE, M.B., Ch.B., D.O., F.R.C.S.E., F.R.A.C.S. (Lecturer in Ophthalmology)	1959

Senior Registrars—

P. GRIFFITHS, B.Sc., M.B., Ch.B., D.O.	1956
E. GUNSTENSEN, M.B., Ch.B.	1958

Diseases of Ear, Nose and Throat :—

Surgeons-in-Charge—

I. SIMSON HALL, M.B., Ch.B., F.R.C.P.E., F.R.C.S.E.	1946
J. P. STEWART, M.D., F.R.C.S.E.	1950

Surgeons—

A. B. SMITH, M.D., F.R.C.S.E., D.P.H.	1936
I. M. D. N. FARQUHARSON, M.B., Ch.B., F.R.C.S.E.	1946
R. B. LUMSDEN, T.D., M.B., Ch.B., F.R.C.S.E.	1946
G. D. McDOWALL, M.B., Ch.B., F.R.C.S.E.	1951

Senior Registrar—

B. H. COLMAN, M.B., Ch.B., F.R.C.S.E.	1956
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University Officials and Staff

Venereal Diseases :—		Appointed.
Physicians—		
ROBERT LEES, M.D., F.R.C.P.E.		1954
MARJORIE MURRELL, M.B., B.S., M.R.C.S., L.R.C.P., F.R.C.S.E., D.P.H.		1936
Radiodiagnosis :—		
Physicians—		
T. PHILP, M.B., Ch.B., F.F.R., D.M.R.D.		1957
J. G. DUNCAN, M.B., Ch.B., F.F.R., D.M.R.D.		1957
A. A. DONALDSON, L.R.C.P. and S.E., D.M.R.D.		1958
W. McLEOD, M.B., Ch.B., M.R.C.P., D.M.R.D.		1958
D. R. MAITLAND, V.R.D., M.B., Ch.B., F.R.C.P., D.M.R.D.		1958
Royal Hospital for Sick Children.		
Pædiatrics :—		
Physicians-in-Charge—		
Professor R. W. B. ELLIS, O.B.E., M.A., M.D., F.R.C.P.E., F.R.C.P.		1946
D. N. NICHOLSON, M.B., Ch.B., F.R.C.P.E.		1946
E. F. DORT, M.B., Ch.B., F.R.C.P.E., D.P.H.		1947
Physicians—		
R. A. MILLER, M.A., Ph.D., M.D., F.R.C.P.E.		1948
D. M. DOUGLAS, M.D., B.S., M.R.C.P., M.R.C.S., M.R.C.P.E., D.C.H.		1948
Associate Physician—		
J. W. FARQUHAR, M.B., Ch.B., F.R.C.P.E.		1952
Associate Senior Registrar—		
T. T. S. INGRAM, M.B., Ch.B., M.R.C.P.E., D.C.H.		1955
Senior Registrar—		
A. W. FERGUSON, B.A., M.B., B.Chir., M.R.C.P., D.C.H.		1957
Pædiatric Surgery :—		
Surgeon-in-Charge—		
J. J. MASON BROWN, O.B.E., M.B., Ch.B., F.R.C.S.E.		1946
Surgeons—		
F. H. ROBERTS, M.B., Ch.B., F.R.C.S.E.		1947
ROSAMUND M. I. MACKAY, M.B., B.S., F.R.C.S.E.		1947
Plastic Surgery :—		
Surgeon-in-Charge—		
A. B. WALLACE, M.Sc., M.B., Ch.B., F.R.C.S.E.		1946
Surgeon—		
A. D. R. BATCHELOR, M.B., Ch.B., F.R.C.S.E.		1952
Senior Registrar—		
J. KIRK, M.B., B.S., F.R.C.S.		1956
Diseases of Ear, Nose and Throat :—		
Surgeon-in-Charge—		
J. F. BIRRELL, M.D., F.R.C.S.E.		1948
Ophthalmology :—		
Surgeon—		
J. R. PATERSON, M.B., Ch.B., F.R.C.S.E.		1948
Western, Northern, and Eastern General Hospitals.		
Medicine :—		
Physicians-in-Charge—		
R. W. D. TURNER, O.B.E., M.A., M.D., F.R.C.P.E., F.R.C.P.		1946
J. A. BRUCE, T.D., M.B., Ch.B., F.R.C.P.E.		1947
W. I. CARD, M.D., F.R.C.P.E., F.R.C.P.		1948
J. J. R. DUTHIE, M.B., Ch.B., F.R.C.P.E. (Rheumatic Unit)		1948
F. J. WRIGHT, M.A., M.D., B.Chir., F.R.C.P.E., F.R.C.P., D.T.M. & H. (Tropical Diseases Unit)		1954
J. A. SIMPSON, M.B., Ch.B., M.R.C.P., F.R.F.P.S., M.R.C.P.E. (Neurological Unit)		1956
Physicians—		
J. G. SLATER, B.Sc., M.B., Ch.B., F.R.C.P.E.		1947
E. B. FRENCH, B.A., M.B., B.Ch., F.R.C.P.E., M.R.C.P.		1948
J. A. STRONG, M.B.E., B.A., M.B., B.Ch., F.R.C.P.E., M.R.C.P.		1948
J. G. MACLEOD, M.B., Ch.B., F.R.C.P.E.		1950
R. J. G. SINCLAIR, F.R.C.P.E. (Rheumatic Unit)		1951
J. B. STANTON, M.A., M.B., B.Chir., M.R.C.P., F.R.C.P.E., D.P.M. (Neurological Unit)		1954
W. SIRCUS, M.D., Ph.D., M.R.C.P.E., M.R.C.P. (Gastro-intestinal Unit)		1954
M. B. MATTHEWS, M.A., M.D., M.R.C.P. (Cardiology)		1954
I. W. B. GRANT, M.B., Ch.B., F.R.C.P.E. (Respiratory Diseases Unit)		1952

University Officials and Staff

Medicine (cont.)

Senior Registrars—

Appointed.

C. P. LOWTHER, M.B., Ch.B., F.R.F.P.S.G., M.R.C.P.E.	1956
J. HAMPTON, M.B., Ch.B., M.R.C.P.E., M.R.C.P.	1956
G. P. CREAN, M.B., B.Ch., B.A.O., M.R.C.P.E.	1957

Surgery :—

Surgeons-in-Charge—

DAVID BAND, M.B., Ch.B., F.R.C.S.E., F.R.S.E. (Urological Surgery)	1946
A. LOGAN, M.A., M.B., Ch.B., F.R.C.S.E., F.R.C.S. (Thoracic Surgery)	1946
C. W. A. FALCONER, M.B., Ch.B., F.R.C.S.E.	1954

Surgeons—

W. SELBY TULLOCH, M.B., Ch.B., F.R.C.S.E. (Urological Surgery)	1950
W. P. SMALL, M.B., Ch.B., F.R.C.S.E., M.R.C.P.E.	1955
P. R. WALBAUM, M.B., Ch.B., F.R.C.S.E. (Thoracic Surgery)	1955
A. N. SMITH, M.B., Ch.B., F.R.C.S.E.	1958

Senior Registrars—

B. T. LE ROUX, M.B., Ch.B., F.R.C.S.E. (Thoracic Surgery)	1954
A. A. GUNN, M.B., Ch.B., F.R.C.S.E.	1959
J. E. NEWSAM, M.B., Ch.B., F.R.C.S.	1959

Anæsthetics :—

Anæsthetists—

J. STRATON, M.B., Ch.B., F.F.A.R.C.S., D.A.	1947
C. T. BARRY, M.D. (Paris), F.F.A.R.C.S.	1954
A. C. MILNE, M.B., Ch.B., D.A., F.F.A.R.C.S.	1957
ALISON RITCHIE, M.D., F.R.C.P.E., F.F.A.R.C.P., D.A.	1957

Obstetrics and Gynæcology :—

Obstetricians and Gynæcologists—

A. F. ANDERSON, B.Sc., M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1947
W. A. LISTON, M.C., T.D., B.A., M.B., Ch.B., F.R.C.S.E., F.R.C.P.E., F.R.C.O.G.	1948
G. DOUGLAS MATTHEW, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G.	1948
T. N. MACGREGOR, M.D., M.R.C.P.E., F.R.C.S.E., F.R.C.O.G., F.R.S.E.	1954
P. R. MYERSCOUGH, M.B., Ch.B., M.R.C.O.G., F.R.C.S.E.	1958
M. G. PEARSON, M.B., Ch.B., F.R.C.S., M.R.C.O.G.	1958

Pædiatrics :—

Pædiatrician-in-Charge—

J. O. FORFAR, M.C., B.Sc., M.B., Ch.B., F.R.C.P.E., M.R.C.P., D.C.H.	1950
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Senior Registrar—

A. J. KEAY, M.B., Ch.B., M.R.C.P.E., D.C.H.	1956
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Radiotherapy :—

MARY DOUGLAS, M.D., D.M.R.T., F.F.R.	1958
J. McLELLAND, M.B., Ch.B., D.M.R.T.	1958
J. NEWALL, M.B., Ch.B., M.R.C.P., D.M.R.T.	1958
J. G. PEARSON, M.B., Ch.B., F.R.C.S., D.M.R.T.	1958

Princess Margaret Rose Hospital.

Orthopædic Surgery :—

Surgeons-in-Charge—

W. V. ANDERSON, F.R.C.S.E.	1948
R. I. STIRLING, M.B., Ch.B., F.R.C.S.E.	1948

Surgeons—

G. A. POLLOCK, M.S., F.R.C.S.E., F.A.C.S., D.P.H.	1951
G. P. MITCHELL, M.C., M.B., Ch.B., F.R.C.S.E.	1954

Senior Hospital Medical Officer—

D. W. LAMB, M.B., Ch.B., F.R.C.S.E.	1954
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Leith Hospital.

Medicine for Dental Students :—

Physician-in-Charge—

G. L. MALCOLM SMITH, T.D., M.B., Ch.B., F.R.C.P.E.	1951
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Physician—

C. H. DAVIDSON, M.B., Ch.B., F.R.C.P.E.	1951
R. F. ROBERTSON, M.D., F.R.C.P.E., M.R.C.P.	1959

University Officials and Staff

Dental Hospital.

	Appointed.
Professor J. BOYES, F.R.C.S.E., F.D.S.R.C.S., F.D.S.R.C.S.E.	1958
D. M. WATT, F.D.S., H.D.D., L.D.S.	1949
W. P. BAXENDINE, O.B.E., L.D.S.	1950
A. R. BRADSHAW, L.D.S.	1950
P. J. B. DYCE, L.R.C.P. and S.E., F.D.S., H.D.D., L.D.S.	1951
G. M. ROSE, L.R.C.P. and S.E., L.D.S., D.A.	1951
G. S. BEAGRIE, F.D.S., L.D.S.	1951
W. WATERSTON, L.R.C.P. and S.E., L.D.S.	1951
G. B. HOPKIN, H.D.D., D.D.O., L.D.S.	1952
A. E. DUVAL, F.D.S., H.D.D., L.D.S.	1952
J. N. MANSBRIDGE, H.D.D., L.D.S., Ph.D.	1949
C. E. CHAPMAN, H.D.D., L.D.S.	1953
W. D. MACLENNAN, L.R.C.P. and S.E., L.D.S., H.D.D., F.D.S.	1953
A. R. MACGREGOR, F.D.S., L.D.S.	1953
M. GEDDES, L.D.S.	1954
D. A. DIXON, L.D.S., F.D.S., D.D.O.	1956
C. P. WALLIS, B.Sc., L.D.S.	1954
D. M. MCGIBBON, L.D.S.	1959

Arts

Date of Institution.	Subjects.	Lecturers.	Appointed
1887	Natural Theology ¹	Professor R. D. MACLENNAN	1959
1892	English Literature	A. M. CLARK, M.A., D.Phil., D.Litt., F.R.S.E., F.R.S.A. (Reader)	1928
		JOHN PRUDHOE, M.A.	1949
		WINIFRED A. MAYNARD, B.A., B.Litt.	1951
		J. M. SINCLAIR, M.A.	1950
		A. RUTHERFORD, M.A.	1955
		J. MACQUEEN, M.A., B.A.	1950
1892	Greek	M. KINKEAD-WEEKES, B.A.	1958
		F. K. BORTHWICK, M.A., Ph.D.	1955
		M. C. STOKES, B.A.	1950
1892	Latin	D. B. ROBINSON, B.A.	1958
		K. R. POTTER, M.C., M.A. (Reader)	1926
		W. K. SMITH, M.A. (Senior Lecturer) ²	1929
		K. WELLESLEY, M.A.	1949
1892	Mathematics	D. A. WEST, B.A.	1956
		W. L. EDGE, M.A., Sc.D. (Reader)	1932
		I. M. H. ETHERINGTON, B.A., D.Sc. (Senior Lecturer)	1933
		J. COSSAR, M.A., Ph.D.	1941
		D. G. PALMER, M.A.	1949
		J. L. MOTT, M.A., Ph.D.	1949
		P. HEYWOOD, M.A., D.Phil.	1954
1892	Moral Philosophy	J. B. MCLEOD, M.A.	1958
		ERROL BEDFORD, B.A.	1947
		F. BROADIE, M.A., Ph.D.	1953
		P. S. ARDAL, M.A.	1958
		H. S. EVELING, B.A., B.Phil.	1959
1892	Natural Philosophy	J. HARRISON, B.A., B.Phil.	1959
		JAMES PATON, M.A., B.Sc. (Reader) ³	1928
		G. R. EVANS, M.Sc., Ph.D. (Senior Lecturer)	1953
		MARION A. S. ROSS, M.A., Ph.D. (Reader)	1946
		JAMES KYLES, M.A.	1946
		R. M. SILLITTO, B.Sc., F.Inst.P.	1948
		A. F. BROWN, M.A., Ph.D. (Senior Lecturer)	1952
		M. MCINALLY, B.Sc., Ph.D.	1953
		D. H. MCINTOSH, M.A., B.Sc., F.R.S.E.	1953
		J. MUIR, B.Sc., Ph.D.	1956
		J. G. BURNS, B.Sc., Ph.D.	1959
		P. S. FARAGO, Dr.Phil., F.Inst.P. (Senior Lecturer)	1957
		H. C. SUTTON, M.Sc., Ph.D. (Senior Lecturer) ⁴	1958
1892	Logic and Metaphysics	P. J. KENNEDY, B.A., Ph.D.	1958
		Professor E. E. HARRIS, Acting Head of Department, 1959-60	1959
		A. M. FAIRWEATHER, M.A., S.T.M.	1946
1894	French	G. E. DAVIE, M.A., D.Litt.	1959
		M. DOMINICA LEGGE, B.Litt., M.A. (Reader)	1943
		A. J. STEELE, M.A.	1946
		J. G. CLARK, B.A., Dr. Univ. Paris, Lauréat de l'Académie Française	1952
		H. T. BARNWELL, M.A., Dr. Univ. Montpellier	1952

¹ Gifford Lectureship.

² Reader in Meteorology.

³ Research Fellow.

⁴ Senior Lecturer in Radiochemistry.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
1894	French (<i>contd.</i>)	A. J. HOLDEN, B.A., Ph.D.	1955
	German	N. A. FURNESS, B.A., Dr.Phil.	1954
		KATE SILBER, M.A., Dr.Phil.	1949
		W. L. WARDALE, M.A. (Reader)	1949
		E. F. GEORGE, B.Litt., M.A.	1951
1900	Political Science ¹	D. NOBBS, M.A. (Senior Lecturer)	1935
1902	Ancient (Greek and Roman) History ²	T. J. CADOUX, M.A., D.Phil. (Senior Lecturer)	1952
1901	Political Economy	P. G. WALSH, M.A., Ph.D.	1959
1906	Economic History	INNES SMITH, M.A. (Senior Lecturer)	1946
		L. C. WRIGHT, B.A., Ph.D. (Senior Lecturer)	1947
		HAEZI, E. HEUGHAN, M.A.	1949
		T. I. JOHNSTON, M.A., Ph.D.	1955
		D. G. M. DOSSER, B.Sc.	1957
1906	Psychology	I. G. STEWART, M.A. (Senior Lecturer)	1957
		W. H. MARWICK, M.A.	1948
		M. W. FLINN, B.A., M.A.	1959
		MARY COLLINS, M.A., B.Ed., Ph.D., F.R.S.E. (Reader)	1923
		BORIS SEMENOFF, M.A., B.Ed., Ph.D. (Senior Lecturer)	1938
1907	Statistics and Mathematical Economics	D. MCMAHON, M.A. (Senior Lecturer)	1949
		R. M. MCKENZIE, M.C., M.A.	1949
		JOYCE COOKSON, M.A.	1951
		I. M. I. HUNTER, B.Sc., D.Phil.	1953
		MISS M. C. DONALDSON, M.A., B.Ed., Ph.D.	1958
1908	Geography	D. N. LAWLEY, M.A., D.Sc.	1947
1908		ARTHUR GEDDES, D. ès-L., Ph.D.	1929
		D. R. MACGREGOR, M.A.	1948
		J. B. SISSONS, M.A., Ph.D.	1954
		N. R. ELLIOTT, B.A., Ph.D.	1956
		A. MACPHERSON, M.A.	1956
1909	Cartography	R. A. PULLAN, B.Sc., M.Sc. (Temporary Lecturer)	1958
	Economic Geography	A. TAYLOR, A.M., D.Phil. (Temporary Lecturer)	1959
		R. JONES, M.A., Ph.D.	1959
		C. J. KLAWE, Dip.Com., M.A.	1955
		C. J. ROBERTSON, M.A., B.Sc., Ph.D. (Senior Lecturer)	1947
1909	Banking ³	J. H. LOCKIE, B.L.	1946
1911	Anthropology and Pre-historic Archaeology		
1912	Arabic	Rev. W. MONTGOMERY WATT, M.A., Ph.D., B.Litt. (Reader)	1947
1914	Education	P. J. E. CACHIA, B.A., Ph.D.	1949
		MISS H. M. ADAMS, M.A.	1957
		R. HAMILTON, M.A.	1957
		GEORGE MOWAT, M.A., B.Ed. (Honorary Lecturer)	1927
		W. B. INGLIS, O.B.E., M.A., Ed.B., Ph.D., F.E.I.S. (Honorary Lecturer)	1940
1919	Experimental Education	A. S. FULTON, M.A., B.Ed. (Honorary Lecturer)	1947
	Actuarial Science	J. MAXWELL, M.A., B.Ed. (Honorary Lecturer)	1953
		J. SUTHERLAND, M.A., B.Ed., Ph.D. (Honorary Lecturer)	1953
		T. RENSHAW, B.Sc., B.Ed., Ph.D. (Honorary Lecturer)	1953
		JESSIE REID, M.A., B.Ed. (Honorary Lecturer)	1956
1919		D. WITHERINGTON, M.A., B.Ed. (Honorary Lecturer)	1958
		A. E. G. PILLINER, B.Sc., A.R.I.C.	1949
		SKINNER, M.A., F.F.A.	1956
		J. S. WALKER, F.F.A.	1958
		A. H. COXON, M.A. (Senior Lecturer)	1936
1919	Ancient Philosophy	O. K. SCHRAM, M.A., Ph.D. (Senior Lecturer)	1937
1919	English Language	M. A. K. HALLIDAY, B.A., M.A., Ph.D.	1958
1919	Icelandic	J. B. PRIDE, M.A.	1959
	Modern History	S. H. PALSSON, B.A., Cand. Mag.	1954
		D. NOBBS, M.A. (Senior Lecturer)	1954
		V. G. KIERNAN, M.A.	1948
		A. J. A. MALKIEWICZ, M.A.	1954
1919	Italian	J. P. MACKINTOSH, B.A., M.A.	1954
		D. A. G. WADDELL, M.A., D.Phil.	1959
		MARIO M. ROSSI, M.A., Ph.D., Lib.Doc. (Rome) (Reader)	1947
		B. D. PHILLIPS, B.A.	1959
		L. B. WALTON, M.A., B.Litt., B.A. (Reader) ⁴	1920
1919	Hispanic Studies ¹	MARGARET CROSLAND, M.A.	1947
		D. R. WAGG, B.A., M.A.	1958

¹ Mackay Lectureship.

² Sir William Fraser Lectureship.

³ Charles Bruce Lectureship. Appointment made after consultation with the President for the time being of the Institute of Bankers in Scotland.

⁴ Munro Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
1925	Mathematical Physics	ROBERT SCHLAPP, M.A., Ph.D. (Senior Lecturer)	1925
		ANDREW NISBET, M.A., F.R.S.E. (Senior Lecturer)	1945
		D. L. PURSEY, B.Sc., Ph.D.	1954
		D. J. CANDLIN, M.A., Ph.D.	1959
		G. R. SCREATION, B.A.	1959
		G. H. WILLIAMSON, M.A. (Temporary Lecturer)	1959
1926	Medieval History	A. A. MCB. DUNCAN, B.A., M.A.	1955
	Diplomatic and Palaeography	D. A. BULLOUGH, M.A.	1955
1928	Social Study	MARJORIE A. BROWN, M.A. (Senior Lecturer)	1951
		MARY J. F. GREGOR (Mrs), B.Sc., Ph.D.	1946
		MARGARET BROWNE, B.A.	1948
		A. H. RICHMOND, M.A., B.Sc.	1952
		SUSAN SINCLAIR (Mrs), M.A.	1952
		HEWAN CRAIG, B.A., B.Litt.	1953
		Miss V. O. LAUGHTON, B.A.	1958
1928	Industrial Law	N. R. WYLIE B.A., LL.B.	1956
1932	Classical Archaeology	M. R. E. GOUGH, M.A., F.S.A.	1951
1934	Accounting and Business Method	ROBERT TAYLOR, C.A.	1947
		JOHN TAYLOR, M.A., C.A.	1954
		J. M. RITCHIE, C.A.	1954
		T. Z. KWIECINSKI, B.Com., C.A.	1956
1939	Prehistoric Archaeology	A. C. THOMAS, M.A.	1958
1940	Organisation of Industry and Commerce	I. I. HIRD, B.Com.	1956
		HILDE BEHREND, B.Sc.Econ., Ph.D.	1954
		G. M. STALKER, M.A.	1956
1945	Scottish History and Palaeography	GORDON DONALDSON, M.A., Ph.D., D.Litt. (Reader)	1947
		W. FERGUSON, M.A., B.A., Ph.D.	1956
1946	Social Anthropology	K. L. LITTLE, M.A., Ph.D. (Reader)	1950
		J. LITTLEJOHN, A.P.D.A., Ph.D.	1948
		S. F. COLLINS, M.A., Ph.D.	1952
		M. P. BANTON, B.Sc., Ph.D.	1955
		TANYA BAKER, B.A., Ph.D. (Temporary Lecturer)	1958
1946	Fine Art	G. H. ROBERTSON, M.A.	1916
		A. E. J. CARR	1956
1946	Romance Philology ¹	A. J. HOLDEN, B.A., Ph.D.	1955
1946	Celtic	Rev. W. MATHESON, M.A.	1952
1948	Biblical Studies	D. M. G. STALKER, B.D. (Senior Lecturer)	1948
1948	Phonetics	D. ABERCROMBIE, B.A. (Reader)	1948
		E. T. ULDALL (Mrs), B.A., M.A.	1949
		P. LADEFOGED, M.A.	1956
		P. D. STREVEN, B.A.	1950
		FRANCISE INGEMANN, M.A., Ph.D.	1959
		G. A. SHEPPERSON, M.A.	1948
1948	Imperial and American History		
1949	Sanskrit	A. K. WARDER, B.A., Ph.D.	1955
1949	Russian	D. WARD, M.A. (Senior Lecturer)	1949
		Mrs M. GREENE, M. iur, Ph.D.	1956
1950	Turkish	J. R. WALSH, B.A.	1950
1950	Architecture	P. J. NUTTGENS, M.A., A.R.I.B.A.	1956
		F. R. STEVENSON, A.R.I.B.A., F.R.I.A.S., A.M.T.P.I. (Senior Lecturer)	1959
		H. F. CLARKE, F.I.L.A., (Senior Lecturer)	1959
		P. E. JOHNSON-MARSHALL, Dipl.Arch., A.R.I.B.A., A.M.T.P.I. (Senior Lecturer)	1959
		A. C. M. FORWARD, B.Arch.	1959
1951	Persian	L. P. ELWELL-SUTTON, B.A.	1952
1951	Urdu and Islamic Law	Rev. H. SPENCER, M.A.	1956
1951	Christian Epigraphy	Professor (Emeritus) Sir WILLIAM M. CALDER, M.A., D.Phil., LL.D., F.B.A.	1951
1955	Nursing Studies Unit	Miss E. STEPHENSON, S.R.N., S.C.M., S.R.F.N., H.V. Cert. (Director)	1956
		AUDREY L. JOHN, B.Com., S.R.N., S.C.N. (Research Fellow)	1957
		KATHLEEN J. W. WILSON, R.G.N., S.C.M. (Assistant)	1957

Science

1885	Zoology	G. F. FRIEND, M.A., B.Sc., F.R.S.E. (Senior Lecturer)	1932
		B. M. JONES, D.Sc. (Senior Lecturer)	1947
		P. H. TUFT, M.A., Ph.D.	1949
		L. J. HALE, B.Sc., Ph.D.	1950

¹ Forbes Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
		C. RAYSKI, Ph.D., M.R.C.V.S.	1951
		R. A. KILLE, B.Sc., Ph.D.	1951
		D. S. KETTEL, D.Sc.	1952
		T. WARWICK, M.Sc.	1952
		J. M. MITCHISON, M.A., Ph.D. (Reader)	1953
		KATHERINE M. G. ADAM, B.Sc.	1950
		N. A. MITCHISON, M.A., D.Phil.	1956
		W. A. PAGE, B.Sc., A.R.C.S.	1950
		A. W. G. MANNING, B.Sc., D.Phil.	1958
1899	Forestry	J. L. HARRISON	1946
		W. A. FAIRBAIRN, E.D., D.Sc.	1948
		W. E. SCOTT MUTCH, B.Sc., Ph.D.	1953
		C. J. TAYLOR, M.B.E., E.D., B.Sc., Ph.D.	1954
		D. R. GIFFORD, B.Sc.	1956
		W. FINLAYSON, B.Sc.	1956
		J. E. COUSENS, B.A., M.A.	1958
		J. M. CADORN, B.Sc., Ph.D.	1959
1890	Agricultural and Forest Entomology ¹	J. W. MCHARDY, B.Sc. (Senior Lecturer)	1931
		W. J. GUILD, B.Sc., Ph.D.	1949
1894	Chemistry	MOWBRAY RITCHIE, Ph.D., D.Sc., F.R.I.C. (Reader)	1938
		T. R. BOLAM, M.Sc., D.Sc. (Senior Lecturer)	1920
		NEIL CAMPBELL, Ph.D., D.Sc., F.R.S.E. (Reader)	1932
		CHRISTINA C. MILLER, Ph.D., D.Sc., F.H.-W.C. F.R.S.E. (Senior Lecturer)	1920
		C. A. BEVLERS, D.Sc., F.Inst.P., F.R.S.E.	1938
		DUNCAN TAYLOR, Ph.D., D.Sc.	1945
		G. O. ASPINALL, Ph.D., D.Sc., F.R.I.C., F.R.S.E.	1948
		E. E. PERCIVAL (Mrs), B.Sc., Ph.D., A.R.I.C., F.R.S.E.	1951
		D. J. MANNERS, M.A., Ph.D.	1952
		C. T. GREENWOOD, B.Sc., Ph.D.	1952
		J. H. KNOX, B.Sc., Ph.D.	1953
		A. F. TROTMAN-DICKENSON, M.A., B.Sc., Ph.D., D.Sc.	1954
		D. M. W. ANDERSON, B.Sc., Ph.D., A.R.I.C.	1955
		F. J. C. ROSSOFT, B.Sc., M.A., D.Phil.	1956
		J. C. P. SCHWARZ, M.A., B.Sc., Ph.D., A.R.I.C.	1952
		DEREK LEAVER, B.Sc., Ph.D.	1958
1894	Petrology	G. P. BLACK, B.Sc., Ph.D.	1954
1894	Plant Physiology	A. NELSON, Ph.D., D.Sc., N.D.A., F.R.S.E. (Reader)	1920
1895	Engineering	CHARLES PATTERSON, M.I.Mech.E., M.I.Mar.E. (Senior Lecturer)	1922
		MAXWELL DAVIDSON, B.Sc., Ph.D., M.I.Mech.E. (Senior Lecturer)	1931
		W. DUDGEON, B.Sc., A.M.I.C.E.	1940
		W. B. HUNTER, B.Sc.	1948
		H. M. MELVIN, M.A., Ph.D.	1951
		T. S. M. MACLEAN, B.Sc. A.M.I.E.E.	1952
		T. D. PATTEN, B.Sc., Ph.D.	1952
		B. MELTZER, B.Sc., Ph.D., F.Inst.P. (Senior Lecturer)	1955
		C. W. DAVIDSON, B.Sc.	1956
		S. R. DAVIES, B.Sc.	1950
		A. D. S. BARR, B.Sc., Ph.D.	1957
		J. F. CHRISTIE, B.Sc., A.M.I.C.E., A.M.I.W.E.	1957
	Engineering Drawing	D. S. STEWART, B.Sc., Ph.D., M.I.C.E., A.R.T.C. (Senior Lecturer)	1921
	Applied Electricity	W. E. J. FARVIS, B.Sc., B.Sc.(Eng.), M.I.E.E. (Senior Lecturer)	1948
	Applied Dynamics	G. B. WARBURTON, M.A., Ph.D. (Senior Lecturer)	1948
		L. MAUNDER, B.Sc., Sc.D., Ph.D.	1956
		J. D. ROHSON, M.A., Ph.D.	1950
1903	Technical Mathematics	L. M. BROWN, M.Sc., Ph.D. (Senior Lecturer)	1946
		G. MACKENZIE, B.Sc., A.M.I.E.E.	1949
		J. FULTON, M.A., Ph.D.	1951
		A. R. LUCAS, M.A.	1958
1908	Botany.	C. A. TYALL, B.Sc.	1947
		P. H. DAVIS, B.Sc., Ph.D., F.R.S.E.	1950
		J. ROBERTS, B.Sc.	1950
		J. G. DODDS, B.Sc., Ph.D.	1954
		A. J. BROOK, B.Sc., Ph.D.	1958
		J. K. HEYES, M.Sc., Ph.D.	1959
		H. R. FLETCHER, Ph.D., D.Sc. (Honorary Senior Lecturer)	1959

¹ Steven Lectureship.

University Officials and Staff

Date of Institution.	Subjects.	Lecturers.	Appointed.
1910	Palaeontology .	G. Y. CRAIG, B.Sc., Ph.D.	1947
1911	Agriculture .	J. EVANS GORDON, O.B.E., B.Sc. (Agr.), B.Sc. (For. Ph.D. (Senior Lecturer) (Garton Lecturer)	1926
		M. A. KNOX, B.Sc., Agric. Dip.	1949
		K. V. RUNCIE, B.Sc., M.S.	1949
		S. F. HAYES, B.Sc., D.H.E., F.L.S.	1949
		J. C. HOLMES, B.Sc., M.S.	1949
		J. M. M. CUNNINGHAM, B.Sc.	1949
		R. M. MCIVER, B.Sc., Dip. An. Gen.	1953
		J. HARKINS, B.Sc., N.D.A.	1953
		M. J. NASH, B.Sc., M.Sc., Ph.D.	1956
	Agricultural Bacteriology	T. GIBSON, D.Sc.	1951
	Agricultural Botany .	R. G. HEDDLE, M.A., R.Sc.	1958
		L. S. COBLEY, B.Sc., A.I.C.T.A.	1958
		L. M. WALKER, B.Sc.	1958
	Farm Mechanisation .		
1911	Comparative Anatomy ¹	W. BLYTH, B.Sc., Ph.D.	1948
1911	Mycology and Bacteriology	D. M. WILSON, B.Sc., Ph.D., M.I.Chem.E. (Senior Lecturer)	1948
1919	Chemical Technology ¹	N. MACLEOD, B.Sc., Ph.D., A.R.C.S.	1957
1920	Indian and Colonial Forest Trees		
1921	Economic Geology .	P. McL. D. DUFF, B.Sc.	1954
1928	Agricultural Chemistry	A. M. SMITH, Ph.D., D.Sc., F.R.I.C., F.H.-W.C., F.R.S.E.	1936
1928	Animal Genetics .	Sir ALICE BUCHANAN-SMITH, C.B.E., T.D., D.L., J.P., M.A., D.Sc., M.S.A.	1928
		CHARLOTTE AUERBACH, Ph.D., D.Sc., F.R.S.E., F.R.S. (Reader).	1947
		G. H. BEALE, M.B.E., B.Sc., Ph.D., A.R.C.S., F.R.S. (Reader)	1948
		RUTH M. CLAYTON (Mrs), M.A.	1950
		B. WOOLF, M.A., Ph.D., F.R.S.E. (Senior Lecturer)	1952
		G. G. SELMAN, B.Sc., Ph.D., F.R.P.S.	1953
		H. KACSER, M.Sc., Ph.D.	1955
1944	Geology	E. K. WALTON, B.Sc., Ph.D.	1954
		M. R. W. JOHNSON, B.Sc., Ph.D., D.I.C.	1957
		EDWARD L. P. MERCY, Ph.D., D.I.C.	1958
		A. HALLAM, M.A.	1959
1949	Astronomy .	M. J. SMYTH, M.A., Ph.D.	1950
1956	Biophysics .	J. DAINTY, M.A., D.Sc. (Reader)	1947
		R. SCOTT, B.Sc., Ph.D.	1955
		P. C. CROGHAN, M.A., Ph.D.	1955
		E. J. WILLIAMS, B.Sc., Ph.D.	1956
		R. J. JOHNSTON, M.Sc., Ph.D.	1957
		B. R. MALCOLM, B.Sc., Ph.D., A.Inst.P.	1958
1958	Mining .	J. GALLOWAY, B.Sc., A.M.I.M.M., A.M.I.Min.E. (Honorary Lecturer)	1958
Music			
1914	Music	MARY G. GRIERSON, Mus.Doc. (Senior Lecturer)	1928
		JOHN FAIRBAIRN, Mus.Doc.	1945
		HANS F. REDLICH, Ph.D.	1955
		K. LEIGHTON, M.A., B.Mus., L.R.A.M.	1956
		HANS GAL, Mus.Doc., Phil.D.	1945

University Assistants and Demonstrators

Subjects.	Assistants.
Biblical Criticism .	Rev. H. A. SHEPHERD, M.A., B.D.
Hebrew and Semitic Languages	Rev. A. A. ANDERSON, B.D.

Law

Administrative Law	S. MACRAE, B.Com., A.S.A.A.
Constitutional Law	F. F. CATFORD, B.L.
Conveyancing .	R. J. KING MURRAY, M.A., LL.B.
Public Law .	
Scots Law .	I. C. KIRKWOOD, M.A., LL.B., LL.M.

¹ Barclay and Goodsir Lectureship.

² Technical Chemistry, before 1955.

Subjects.	Assistants.
Medicine	
Anatomy .	K. CLARK, M.B., Ch.B., F.R.C.S.E. B. MACKAY, M.B., Ch.B.
Applied Anatomy	E. L. FARQUHARSON, M.D., F.R.C.S.E., F.R.C.S. D. M. F. BATTY, M.B., Ch.B., F.R.C.P.E. F. H. ROBERTS, M.B., Ch.B., F.R.C.S.E. J. A. ROSS, M.B.E., M.D., F.R.C.S.E. C. S. R. JACKSON, M.A., B.M., B.Ch., D.O.M.S., F.R.C.S.E. I. LAWSON DICK, M.D., Ch.M., F.R.C.S.E. I. C. S. KNIGHT, M.B., Ch.B., F.R.C.S.E. JEAN V. FULTON, B.Sc. R. H. P. REID, B.Sc. R. J. B. KING, M.Sc. Mrs E. B. MAWER, B.Sc. J. C. GILBERT, B.Sc. K. GRIFFITHS, B.Sc.
Biochemistry	Mrs A. V. MORGAN, M.A. J. D. RICKETTS, B.V.M. & S. W. T. CLARK, B.V.M. & S. R. F. OGILVIE, M.D., D.Sc., F.R.C.P.E., F.R.S.E. SHEILA T. LINDSAY, B.Sc. G. R. SUTHERLAND, M.B., Ch.B. I. W. DELAMORE, M.B., Ch.B. W. H. MORLEY, M.B., Ch.B.
Child Life and Health .	Mrs A. E. PERRY, M.B., Ch.B. (Honorary Assistant)
Clinical Veterinary Medicine	K. A. SCOTT, A.R.I.C. N. L. WRIGHT, M.B., Ch.B. B. G. TOWNSEND, B.Sc. KATHERINE M. LEVY, M.B., Ch.B. MARY M. C. BEATON, B.Sc. MARJORIE MURRELL, M.B., B.S., D.P.H., F.R.C.S.E. MARY SCOTT GRAY, M.B., Ch.B., M.R.C.P.E.
Forensic Medicine . . .	P. H. HUTTON, M.R.C.V.S.
Medicine	M. ELIZABETH DAVIES, B.Sc., Ph.D. W. T. CLARK, B.V.M. & S. EWEN E. B. WATSON, B.V.M. & S. Miss M. C. M. GORDON, B.V.M. & S. P. J. HARDEN, B.V.Sc. A. I. T. WALKER, B.Sc., M.R.C.V.S. P. IMLAH, M.R.C.V.S.
Orthopædic Surgery . . .	A. C. ROWLAND, B.Sc., M.R.C.V.S.
Pharmacology	J. D. RICKETTS, B.V.M. & S.
Physiology	M. JACOBSEN, B.Sc., M.B., Ch.B. B. F. LEEK, B.V.M. & S.
Pregnancy Diagnosis . . .	B. MITCHELL, B.V.M. & S. J. G. WATT, B.V.M. & S., M.R.C.V.S.
Public Health	
Tuberculosis	
Veneral Diseases	
Veterinary Anatomy . . .	
Veterinary Bacteriology . .	
Veterinary Clinical Medicine and Surgery	
Veterinary Hygiene	
Veterinary Medicine . . .	
Veterinary Pathology . . .	
Veterinary Pharmacology . .	
Veterinary Physiology . . .	
Veterinary Surgery	

Arts

Arabic	Rev. K. S. S. JAMAL, B.A.
Economic History	T. C. SMOUT, B.A.
English	G. KITCHIN, M.A., B.Litt., D.Litt. JANET M. SMITH, M.A., Ph.D. I. G. ANDREW, M.A., O.A. I. GREGOR, B.A., Ph.D. C. G. WILLIAMSON, M.A., B.Litt. D. MACAULAY, M.A. J. P. THORNE, B.A. J.-C. CARRIERE, L.ès.L. Mlle. M. LATROHE, L.ès.L. Mlle. M. MALKANI, L.ès.L. F. HEIDET, L.ès.L. C. HENRY L. C. E. RAOULT A. R. PRESS, B.A., Dr. de L'Univ. Bordeaux G. S. CALORI, L.ès.L. J. D. WOOD, B.A. G. HUMPHRYS, B.Sc. MARIE L. BAKER, M.A., Ph.D. G. MARAHRENS KARIN LANGENHEIM F. J. SCOTT, M.A.
English Language	
French	
Geography	
German	
Greek	

University Officials and Staff

Subjects.	Assistants.
History	M. J. BARNES, B.A. L. KOCHAN, B.A., Ph.D. CLARE DYMOND, B.A. R. G. NICHOLSON, M.A. K. FOWLER, B.A.
Italian	KATHLEEN M. GUTHRIE, M.A.
Logic and Metaphysics	R. S. MCGOWAN, B.A., M.A. V. M. HOPF, M.A.
Moral Philosophy	G. P. MORICE, M.A.
Natural Philosophy	Miss D. G. BRETHERTON, M.A. J. MORGAN, A.R.C.S.T. G. MURRAY, B.Sc. G. M. THOMAS, Ph.D. J. B. MCINNIS, B.Sc. A. G. A. RAE, B.Sc. D. A. BLACKBURN, B.Sc. Miss V. A. BRIGEMEN, B.Sc. Miss C. P. SNODGRASS, B.Sc., Ph.D. N. R. S. TAIT, B.Sc. T. J. RENOUF, B.Sc. R. M. HUDSON, B.Sc., Ph.D. R. B. GALLOWAY, B.Sc. JACQUELINE MARRIAN, B.Com.
Organisation of Industry and Commerce	
Phonetics	Miss LINDSAY CRIPER, M.A. K. H. ALBROW, B.A. Miss W. E. HUBBARD, M.A. M. ELIZABETH DUNSTAN, M.A.
Political Economy	ASTA W. R. MOLLER, M.A., B.Litt., D.Phil. J. G. SCOTT, M.A.
Political Science	D. B. FORRESTER, M.A. Miss C. ROSS, M.A.
Psychology	W. M. HARGROVES, M.D., D.P.M., F.R.C.P.E. J. A. L. NAUGHTON, M.C., B.Sc., M.B., Ch.B. JEAN ROSS, B.Sc. R. LAKOWSKI, M.A. G. W. G. MONTGOMERY, B.A., B.Ed. Miss E. VOSNESENSKY, B.A.
Russian	E. W. M. BALFOUR-MELVILLE, M.A., D.Litt.
Scottish History	M. J. RUEL, M.A., B.Litt.
Social Anthropology	MARY E. C. BIRD, M.A., Ph.D. Mrs MARGARET TAIT, M.A.
Social Study	C. W. D. HOLTOM
Spanish	MARY M. COUPER, M.A., Ph.D. J. HERRERO, Ph.D. A. L. GOOCH, M.A.

Science

Animal Genetics	F. S. BILLET, B.Sc., Ph.D., A.R.I.C. E. C. A. LUCY, B.Sc. (Demonstrator) W. DONACHIE, B.Sc.
Botany	A. P. BROWN, B.A. M. M. YEOMAN, B.Sc., M.Sc. A. J. TULETT, B.Sc. J. H. WALSH, B.A. D. RATCLIFFE, B.Sc., Ph.D.
Chemical Technology	G. S. G. BEVERIDGE, B.Sc., A.R.T.C. A. P. SHAHBENDERIAN, M.A. J. R. FLOWER, B.A.
Chemistry	D. A. CROMBIE, B.Sc. J. SMOLICZ, B.Sc. D. R. KENNEDY, B.Sc., Ph.D. RUBY FEON, M.Sc., Ph.D.
Engineering	E. M. FORSYTH, B.Sc. M. G. COUTIE, B.Sc. H. J. HETHERINGTON, B.Sc. A. R. DINNIS, B.Sc. A. L. FLORENCE, B.Sc. G. DERBYSHIRE, B.Sc.
Geology	M. J. O'HARA, B.A. L. A. J. GORDON, B.Sc. I. W. D. DALZIEL, B.Sc.

External Examiners

Subjects.	Assistants.
Zoology	BRYAN C. CLARKE, B.A. P. A. G. WILSON, B.Sc., Ph.D. D. W. DRESSER, B.Sc. V. ZAMAN, M.B., B.S., D.T.M. & H. D. C. BARKER, B.Sc. W. SINCLAIR, B.Sc. D. S. SAUNDERS, B.Sc. M. J. W. FAED, B.Sc., Ph.D.

Examiners

Preliminary Examinations

Subjects.	Examiners.	Appointment from 1st Jan.
Botany	A. J. BROOK, B.Sc., Ph.D. (2)	1959
Chemistry	DUNCAN TATLOR, B.Sc., Ph.D., D.Sc. (3)	1958
English	A. RUTHERFORD, M.A. (3) GEORGE KITCHIN, M.A., B.Litt. D.Litt. (1) I. G. ANDREW, M.A., O.A. (1)	1958 1959 1959
Special English	*	1958
French	A. J. STEELE, M.A. (3) Mrs C. G. HOLDEN, B.A., L.E.S.L. (1)	1959 1959
Geography	N. R. ELLIOTT, B.A., Ph.D. (3)	1958
German	MARIE L. BARKER, M.A., Ph.D. (3)	1958
Greek	E. K. BORTHWICK, M.A., Ph.D. (3)	1958
History	G. A. SHEPPERSON, M.A. (3)	1958
Italian	JOHN PURVES, M.A. (3)	1958
Latin	D. A. WEST, B.A. (2)	1959
Mathematics and Additional Mathematics	J. L. MOTT, M.A., Ph.D. (3) JAMES FULTON, M.A., Ph.D. (3)	1958 1958
Physics	E. J. WILLIAMS, B.Sc., Ph.D. (3)	1958
Spanish	MARGARET CROSLAND, M.A. (3)	1958
Zoology	R. A. KILLE, B.Sc., Ph.D. (3)	1958

Degree Examinations

Divinity

Ecclesiastical History	Rev. S. MECHIE, M.A., D.D., Glasgow (3)	1957
New Testament	Rev. Dr C. K. BARRETT, Durham (3)	1958
Old Testament	Rev. G. W. ANDERSON, M.A., St Andrews (3)	1958
Systematic Theology	Rev. Professor J. K. S. REID, Leeds (3)	1958

Law

Accounting and Business Method	A. D. PATON, C.A., Glasgow (4)	1958
Administrative Law	J. D. R. CUTHBERT, B.L., M.P.A. (4)	1956
Civil Law	P. STEIN, M.A., LL.B., Aberdeen (4)	1956
Constitutional Law	R. S. JOHNSTON, Q.C. (4)	1960
Conveyancing	D. C. FULTON, W.S. (4)	1959
Evidence and Pleading	ALEXANDER THOMSON, Q.C. (4)	1958
Forensic Medicine	D. REITH, M.A., LL.B., Advocate (4)	1956
Industrial Law	ALEXANDER THOMSON, Q.C. (4)	1958
International Private Law	R. H. McDONALD, M.C., Q.C. (4)	1958
Mercantile Law	R. H. McDONALD, M.C., Q.C. (4)	1958
Public Law	P. STEIN, M.A., LL.B., Aberdeen (4)	1956
Scots Law	J. J. CUNNINGHAM, Q.C. (4)	1956

Medicine

Anatomy	Professor G. M. WYBURN, Glasgow (3)	1957
Bacteriology	Professor H. B. MAITLAND (Manchester) (3)	1959
Biochemistry	Professor L. YOUNG, London (3)	1957
Biology	J. M. DODD, B.Sc., Ph.D., St Andrews (3)	1958
Botany	Professor J. R. MATTHEWS, Aberdeen (4)	1957
Chemistry	Professor W. COCKER, Dublin (3)	1958
Dental Anatomy and Histology	T. W. C. GUYLER, B.D.S., Liverpool (3)	1958
Dental Metallurgy and the Properties of Dental Materials, and Dental Mechanics	Professor E. MATTHEWS, Manchester (3)	1959
Diseases of Tropical Climates	Professor A. W. WOODRUFF, London (2)	1958

University Officials and Staff

Subjects.	Examiners.	Appointment from 1st Jan.
Forensic Medicine	Dr A. ALLISON, D.P.H., Glasgow (3)	1955
Infectious Diseases (for D.P.H.)	ADAM L. K. RANKIN, M.D., F.R.F.P.S., Glasgow (3)	1958
Materia Medica	Professor C. A. KEELE, London (3)	1958
Medical Illustration	Miss M. C. McLARTY, Oxford (3)	1957
Medicine and Clinical Medicine	Professor W. MELVILLE ARNOTT, Birmingham (1)	1959
	J. H. WRIGHT, M.D., F.R.F.P.S., F.R.C.P.E., Glasgow (1)	1959
	Professor ALAN KEKWICK, London (1)	1959
	Professor E. J. WAYNE, Glasgow (1)	1959
	Professor W. I. C. MORRIS, Manchester (3)	1959
Obstetrics and Gynaecology	H. R. MACLENNAN, M.D., F.R.C.O.G., Glasgow (1)	1959
Clinical Obstetrics and Clinical Gynaecology	E. CHALMERS FAIRMY, M.B., Ch.B., F.R.C.S.E., F.R.C.O.G. (1)	1959
	J. BRUCE DEWAR, M.B., Ch.B., F.R.C.S., Dumfries (1)	1959
	Professor A. S. DUNCAN, Cardiff (1)	1959
	G. P. MILNE, M.B., Ch.B., F.R.C.O.G., Aberdeen (1)	1959
Pathology	Professor T. SYMINGTON, Glasgow (3)	1959
Physics	H. D. GRIFFITH, B.A., Aberdeen (3)	1957
Physiology	Professor A. A. HARPER, Newcastle-upon-Tyne (3)	1958
Psychiatry	Professor W. MALCOLM MILLAR, M.D., Dip. Psych., Aberdeen (1)	1959
Public Health	Professor A. MAIR, M.D., D.P.H., Dundee (1)	1959
Radiodiagnosis	J. W. McLAREN, M.A., M.R.C.P., M.R.C.S., F.F.R., London (1)	1959
Radiotherapy	J. S. FULTON, C.B.E., M.D., F.R.C.P.E., F.F.R., Liverpool (3)	1957
Surgery and Clinical Surgery	Professor Emeritus SIR WALTER MERCER, Edinburgh (1)	1959
	SIR CLEMENT PRICE THOMAS, London (1)	1959
	Professor IAN AIRD, London (1)	1959
	Professor C. A. WELLS, Liverpool (1)	1959
	A. J. GARDHAM, F.R.C.S., London (1)	1959
Therapeutics	J. B. HARMAN, M.A., M.D., F.R.C.P., F.R.C.S., London (3)	1959
Anatomy (B.D.S.)	Professor G. M. WYBURN, Glasgow (3)	1957
Biochemistry (B.D.S.)	Professor L. YOUNG, London (3)	1957
Bacteriology (B.D.S.)	Professor H. B. MAITLAND, Manchester (3)	1959
Pathology (B.D.S.)	Professor T. SYMINGTON, Glasgow (3)	1959
Pharmacology and Dental Therapeutics and Junior Operative Surgery and Radiology	Professor W. E. HERBERT, F.D.S., M.R.C.S.Eng., Guy's Hospital, London (1)	1959
Medicine (B.D.S.)	E. M. MCGIN, B.Sc., M.B., F.R.F.P.S., M.R.C.P., Glasgow (3)	1958
Surgery (B.D.S.)	Professor E. C. MEKIE, (1)	1959
Ethics, Economics and Jurisprudence (B.D.S.)	Dr A. ALLISON, D.P.H., Glasgow (3)	1957
Preventive Dentistry	P. M. C. JAMES, L.D.S., D.P.D. London (3)	1959
Dental Surgery and Pathology, Senior Operative Dental and Oral Surgery, Extractions under Anaesthetics, Dental Prosthetics, Orthodontics	Professor H. G. RAIDEN, Manchester (3)	1957
Veterinary Anatomy and Histology	Professor J. MCCUNN, London (1)	1959
Veterinary Biochemistry	Professor F. G. YOUNG, Cambridge (3)	1957
Veterinary Botany	Professor J. R. MATTHEWS, Aberdeen (4)	1957
Veterinary Pharmacology	R. J. FITZPATRICK, B.Sc., Ph.D., Bristol (3)	1958
Veterinary Physiology	R. S. COMLINE, B.Sc., M.A., Ph.D., M.R.C.V.S., Cambridge (2)	1959
Veterinary Pathology	G. O. DAVIES, D.V.Sc., D.V.M., Liverpool (3)	1957
Veterinary Bacteriology	A. MCDIARMID, D.Sc., Ph.D., M.R.C.V.S., Newbury (3)	1959
Veterinary Parasitology	J. A. CAMPBELL, B.A., Ph.D., M.R.C.V.S., Edinburgh (2)	1959
Veterinary Hygiene	Professor J. S. S. INGLIS, Glasgow (3)	1959
Veterinary Preventive and State Medicine	E. F. HARDWICK, M.R.C.V.S., Aberdeen (1)	1959
D.T.V.M.—Part I	Professor P. C. C. GARNHAM, London (2)	1959
D.T.V.M.—Part II	S. E. PIERCY, B.Sc., Ph.D., F.R.C.V.S., Beckenham (2)	1959
Veterinary Medicine	Professor H. G. LAMONT, Belfast (3)	1957
Veterinary Obstetrics	G. H. ARTHUR, M.V.Sc., M.R.C.V.S., Streatley (3)	1957
Veterinary Surgery	Professor J. G. WRIGHT, Liverpool (3)	1957
D.V.S.M.—Bacteriology, Pathology and Immunology	W. R. KERR, B.Sc., Ph.D., M.R.C.V.S., D.V.S.M., Belfast (3)	1957

External Examiners

Subject.	Examiners.	Appointment from 1st Jan.
D.V.S.M.—(contd.)		
Veterinary Preventive and State Medicine	E. F. HARDWICK, M.R.C.V.S., Aberdeen (3)	1957
Veterinary Public Health	A. McLEAN, B.Sc., M.R.C.V.S., D.V.H., Belfast (3)	1957
Dipl. Psych.—		
Anatomy	Professor P. M. DANIEL (1)	1959
Physiology	Dr J. A. V. BATES (2)	1959
Psychology	Professor O. L. ZANGWILL (1)	1959

Arts

Accounting and Business Method	A. D. PATON, C.A., Glasgow (4)	1958
Actuarial Mathematics	Chairman, Board of Examiners, Faculty of Actuaries	...
Ancient History	Professor F. W. WALRANK, Liverpool (3)	1959
Ancient Philosophy	Professor A. C. LLOYD, Liverpool (3)	1959
Applied Linguistics	J. A. NOONAN, D.Phil., London (1)	1959
Arabic	Rev. E. F. F. BISHOP, M.A., Redhill (3)	1958
Architecture	Professor SIR LESLIE MARTIN, Cambridge (1)	1959
Astronomy	M. W. OWENDE, M.A., B.Sc., Ph.D., Glasgow (3)	1958
Banking	G. G. C. KENNEDY, Edinburgh (1)	1959
Biblical Studies	Professor F. F. BRUCE, Sheffield (3)	1958
Botany	Professor J. R. MATTHEWS, Aberdeen (4)	1957
British History (Ordinary)	E. WRIGHT, B.A., M.A., Glasgow (3)	1957
Celtic	Professor A. MATHESON, Glasgow (4)	1959
Chemistry (Physical)	Professor G. M. BURNETT, Aberdeen (4)	1957
Chemistry (Organic)	Professor D. H. HAY, London (4)	1958
Civil Law	P. STEIN, M.A., LL.B., Aberdeen (4)	1956
Classical Archaeology	Professor C. M. ROBERTSON, London (3)	1959
Comparative Constitutions	D. C. M. YARDELEY, M.A., LL.B., D.Phil., Oxford (3)	1958
Constitutional Law	R. S. JOHNSTON, Q.C. (4)	1960
Ecclesiastical History	Rev. STEWART MATHIE, M.A., D.D., Glasgow (3)	1957
Economic Geography	W. R. MEAD, M.Sc., Ph.D., London (3)	1958
Economic History (Hons.)	R. H. CAMPBELL, M.A., Ph.D., Glasgow (3)	1959
Economic History (Ordinary)	J. B. K. HUNTER, M.A., Glasgow (3)	1957
Education	Professor BEN MORRIS, Bristol (3)	1957
English as a Foreign Language	J. HOLLOWAY, M.A., D.Phil., Cambridge (3)	1959
English Literature	J. HOLLOWAY, D.Phil., Cambridge (3)	1959
English Language	ARTHUR BROWN, M.A., London (3)	1958
European History (Ordinary)	Professor N. DAVIS, Glasgow (3)	1958
European History (Hons. I and II)	M. S. ANDERSON, M.A., Ph.D., London (3)	1957
European History (Hons. III and IV)		
French (Ordinary)	H. H. LUCAS, B.A., D. de l'U. Stras., Nottingham (4)	1956
French (Hons.)	R. D. D. GIBSON, B.A., Ph.D., Aberdeen (3)	1959
Geography (Ordinary)	Professor L. J. AUSTIN, Manchester (3)	1958
Geography (Hons.)	W. R. MEAD, M.Sc., Ph.D., London (3)	1958
German	H. THORPE, M.A., M.Litt., Ph.D., Birmingham (1)	1959
Greek (Hons. and Ordinary)	Professor L. W. FORSTER, London (3)	1958
Hebrew	Professor P. T. STEVENS, London (3)	1958
History (Hons. Mediaeval)	Rev. L. H. BROCKINGTON, M.A., B.D., Oxford (3)	1957
History (Hons. Modern)	Professor J. H. LE PATOUREL, Leeds (3)	1959
History (Hons. Special Subjects)	A. F. THOMPSON, M.A., Oxford (3)	1959
History of Art	D. C. WATT, M.A., London (1)	1959
Industrial Law	A. M. YOUNG, M.A., Glasgow (3)	1959
Imperial and American History	A. THOMSON, Q.C., Edinburgh (4)	1958
Islamic History	J. D. HARGREAVES, M.A., Aberdeen (3)	1957
Italian	C. F. BOSWORTH, B.A., M.A., St Andrews (3)	1958
Latin (Hons. and Ordinary)	Professor C. GRAYSON, Oxford (3)	1959
Logic and Metaphysics (Ordinary)	Professor R. G. AUSTIN, Liverpool (3)	1958
Mathematical Physics (Hons.)	G. BROWN, T.D., M.A., Glasgow (3)	1959
Mathematical Physics (Ordinary)	R. A. LYTLETON, M.A., Ph.D., F.R.S., Cambridge (3)	1959
Mathematics (Hons.)	A. G. MACKIE, M.A., Ph.D., St Andrews (3)	1959
Mathematics (Ordinary)	Professor J. L. BURCHNALL, O.B.E., M.C., M.A., Durham (3)	1959
Mathematics, Technical	J. HUNTER, M.A., Ph.D., Glasgow (3)	1959
Mental Philosophy (Hons.)	L. R. SHENTON, B.Sc., Ph.D., Manchester (3)	1959
Meteorology	G. BROWN, T.D., M.A., Glasgow (3)	1959
Moral Philosophy	R. C. SUTCLIFFE, O.B.E., B.Sc., Ph.D. (3)	1957
Music	G. E. DAVIE, M.A., D.Litt., Belfast (1)	1959
	Professor A. C. LEWIS, Birmingham (3)	1958

University Officials and Staff

Subjects.	Examiners.	Appointments from 1st Jan.
Natural Philosophy (Ordinary)	H. J. J. BRADDICK, B.A., Ph.D., Manchester (3)	1957
Natural Philosophy (Inter. and Hons.)	Professor H. S. W. MASSEY, London (3)	1959
Nursing Studies	Miss WINIFRED E. PRENTICE (1)	1959
Organisation of Industry and Commerce	F. A. WELLS, O.B.E., B.Sc., Ph.D., Nottingham (1)	1959
Palaeography and Manuscript Studies	R. W. HUNT, M.A., D.Phil., Oxford (3)	1959
Persian	J. A. BOYLE, B.A., Ph.D., Manchester (3)	1958
Phonetics	J. L. M. TRIM, B.A., Cambridge (3)	1959
Phonetics (Diploma)	N. C. SCOTT, B.A., B.Sc. (2)	1958
Political Economy (Hons.)	Professor T. W. HUTCHINSON, Birmingham (3)	1958
Political Economy (Ordinary)	A. V. COLE, M.A., St Andrews (3)	1959
Political Science	J. H. BURNS, M.A., Ph.D., Aberdeen (1)	1959
Prehistoric Archaeology	G. E. DANIEL, M.A., Ph.D., Cambridge (3)	1958
Psychology	ALAN T. WELFORD, M.A., Cambridge (3)	1957
Russian	Professor N. GORODETSKI, Liverpool (3)	1957
Sanskrit	Professor T. BURROW, Oxford (3)	1959
Scottish History	G. W. S. BARROW, M.A., B.Litt., London (3)	1958
Social Anthropology	Dr V. A. SHLIDICK, Durham (3)	1958
Social Study—		
Elementary Physiology and Anatomy	I. S. KIRKLAND, M.B., Ch.B., F.R.C.S., Edinburgh (3)	1957
Medical Social Work	Professor A. MAIR, Dundee (3)	1959
Psychiatric Social Work	Miss J. M. SNELLING, B.A., London (3)	1959
Psychiatry	Miss F. E. WALDRON, B.A., Birmingham (3)	1959
Social Services	Professor T. FERGUSON RODGER, Glasgow (4)	1957
Social Theory	Miss M. P. HALL, B.A., Liverpool (1)	1959
Social Biology	Dr DENNIS CHAPMAN, Liverpool (3)	1958
Spanish	Professor A. MAIR, M.D., D.P.H., Dundee (1)	1959
Spanish History	Professor A. E. SLOMAN, M.A., D.Phil., Liverpool (1)	1959
Statistics	D. V. LINDLEY, M.A., Cambridge (3)	1957
Turkish	Dr G. LEWIS, Oxford (3)	1957
Urdu	AZIZ AHMAD, London (1)	1958
Zoology	J. A. RAMSAY, M.A., Ph.D., F.R.S., Cambridge (3)	1958

Science

PURE SCIENCE

Anatomy	Professor G. M. WYBURN, Glasgow (3)	1957
Animal Genetics (Dipl.)	Professor CALLAN, St Andrews (3), and Professor SIR JOSEPH B. HUTCHINSON, Cambridge (3)	1959
Astronomy	M. W. OVENDEN, M.A., B.Sc., Ph.D., Glasgow (3)	1958
Bacteriology	Professor B. C. J. G. KNIGHT, Reading (3)	1959
Biochemistry	Professor F. G. YOUNG, Cambridge (3)	1957
Botany	Professor J. R. MATTHEWS, Aberdeen (4)	1957
Chemistry (Organic)	Professor D. H. HEY, London (4)	1958
Chemistry (Physical and Inorganic)	Professor G. M. BURNETT, Aberdeen (4)	1957
Genetics	Professor CALLAN, St Andrews (3), and Professor SIR JOSEPH B. HUTCHINSON, Cambridge (3)	1959
Geology	Professor L. HAWKES, London (3)	1957
Mathematical Physics (Honours)	R. A. LYTTLETON, M.A., Ph.D., F.R.S., Cambridge (3)	1959
Mathematical Physics (Ordinary)	A. G. MACKIE, M.A., Ph.D., St Andrews (3)	1959
Mathematics (Honours)	Professor J. L. BURCHNALL, O.B.E., M.C., M.A., Durham (3)	1959
Mathematics (Ordinary)	J. HUNTER, M.A., Ph.D., Glasgow (3)	1959
Meteorology	R. C. SUTCLIFFE, O.B.E., B.Sc., Ph.D. (3)	1957
Pathology	Professor T. SYMINGTON, Glasgow (3)	1959
Pharmacology	Professor C. A. KEELE, F.C.R.P., London (3)	1958
Physics I	H. J. J. BRADDICK, B.A., Ph.D., Manchester (3)	1957
Physics (Honours)	Professor H. S. W. MASSEY, London (3)	1959
Physiology	R. V. COXON, D.Phil., M.R.C.P., F.R.C.S., Oxford (3)	1957
Statistics	D. V. LINDLEY, M.A., Cambridge (3)	1957
Technical Mathematics	L. R. SHENTON, B.Sc., Ph.D., Manchester	1959
Zoology	J. A. RAMSAY, M.A., Ph.D., F.R.S., Cambridge (3)	1958

University Representatives or Nominees on Public Bodies

Subject.	Examiners.	Appointment from 1st Jan.
APPLIED SCIENCE		
AGRICULTURE AND FORESTRY		
Agriculture	Professor J. MORRISON, Hillsborough (4)	1958
Agricultural and Forest Botany	Professor R. ALUN ROBERTS, Bangor (3)	1959
Agricultural and Forest Chemistry	W. T. H. WILLIAMSON, Ph.D., F.R.I.C., Aberdeen (3)	1957
Agricultural and Forest Entomology	J. HOBART, B.Sc., Bangor (2)	1958
Agricultural Bacteriology	D. A. MCKENZIE, Aberdeen (3)	1957
Agricultural Economics	G. F. B. HOUSTON, M.A., B.Litt., Glasgow (3)	1959
Agricultural Engineering		
Agricultural Chemistry and Forest Soil Science	B. THOMAS, M.Sc., F.R.I.C., Newcastle-upon-Tyne (3)	1959
Farm Mechanisation	C. J. SWAN, B.Sc., N.D.Agr., E., Glasgow (3)	1957
Forestry	W. MACF. ROBERTSON, B.Sc., London (3)	1959
Horticulture	H. F. DOVASTON, B.Sc., Ph.D., F.L.S., Glasgow (1)	1959
Veterinary Hygiene	A. THOMSON, M.R.C.V.S., Glasgow (3)	1959
ENGINEERING		
Accounting	A. D. PATON, C.A., Glasgow (5)	1958
Electronics and Radio	Professor A. L. COLLEN, Sheffield (3)	1957
	C. W. OATLEY, O.B.E., M.A., M.I.E.E., Cambridge (1)	1959
Engineering—		
Civil	Professor J. A. L. MATHESON, Manchester (3)	1957
Electrical	Professor B. HAGUE, Glasgow (3)	1957
Mechanical	Professor J. SMALL, Glasgow (3)	1957
Mathematics (Tech. and Applied)	L. R. SHENTON, B.Sc., Ph.D., Manchester (3)	1959
Applied Dynamics	Professor R. E. D. BISHOP, London (3)	1958
	Professor D. C. JOHNSON, Leeds (1)	1959
MINING		
Metallurgy and Assaying	Professor W. R. D. JONES, Cardiff (3)	1957
Mining and Mine Surveying	Professor F. S. ATKINSON, Sheffield (3)	1957
CHEMICAL TECHNOLOGY		
Chemical Technology	Professor J. M. COULSON, Newcastle-upon-Tyne (4)	1957
Music		
Music	Professor ANTHONY LEWIS, Birmingham (2)	1958

University Library

Librarian—
Deputy Librarian—J. C. CORSON, M.A., Ph.D.
Keeper of Manuscripts—C. P. FINLAYSON, M.A.

Linguistic Survey

Lecturers—
 T. HILL, B.A., M.A.
 J. Y. MATHER, M.A.
Senior Research Assistant—
Research Assistant—T. P. MCCAGHEY, B.A.
 Professor S. M. SAMPSON, Ph.D.

Dictionary of the Older Scottish Tongue

Lecturer—A. J. AITKEN, M.A.
Research Fellows—
 F. BAMFORD.
 JANET M. TEMPLETON, M.A.

School of Scottish Studies

Director—B. R. S. MEGAW, B.A., F.S.A., F.M.A.
Senior Research Fellows—
 C. I. MACLEAN, M.A.
 S. F. SANDERSON, M.A.
Research Fellows—
 W. H. F. NICOLAISEN, Dr.Phil., B.Litt.
 J. MACINNES, M.A.
 F. COLLINSON, Mus.Bac. (Honorary).
 H. HENDERSON, M.A.
Junior Research Fellow—DONIA ETHERINGTON, B.A.

University Officials and Staff

Edinburgh Post-Graduate Board for Medicine

Chairman.—Professor D. M. DUNLOP, B.A., M.D., F.R.C.P.E., F.R.C.P.

Director of Post-Graduate Studies.—Professor Emeritus D. E. C. MEKIE, O.B.E., M.B., Ch.B., F.R.C.S.E.

Assistant Director.—I. S. KIRKLAND, M.B., Ch.B., F.R.C.S.E.

Department of Extra-Mural Studies

Date of Institution		Date of Appointment
1949	Director of Extra-Mural Studies—JAMES HOSSACK, M.A., B.Com.	1949
1953	Assistant Director—J. B. BARCLAY, M.A.	1953
1949	Lecturer—Mrs C. R. M'NEE, M.A.	1949
1956	Tutor Organiser—J. CHISHOLM, M.A.	1965

Social Sciences Research Centre

(Parent Departments in brackets)

Senior Research Lecturer.—TOM BURNS, B.A. (Social Study).

Research Lecturers.—

M. P. BANTON, B.Sc. Econ., Ph.D. (Social Anthropology).

HILDE BEHREND, B.Sc. Econ., Ph.D. (Organisation of Industry and Commerce).

H. CRAIG, B.A., B.Litt. (Social Study).

R. M. MCKENZIE, M.C., M.A. (Psychology).

A. R. MILLS, M.R.C.S., L.R.C.P., D.P.H., D.T.M. & M., (Public Health and Social Medicine).

Research Assistant.—

P. H. PEARSE, B.Sc.

MARY E. C. BIRD, M.A., Ph.D.

Secretary.—KATHLEEN H. ROWE, M.A., B.Ed.

School of Applied Linguistics

Director.—J. C. CATFORD, B.A.

Lecturers.—

Mrs E. INGRAM, M.A.

R. MACKIN, M.A.

Advisers and Directors of Studies

Adviser to Non-Graduation Students in the Faculty of Arts.—JOHN PRUDHOE, M.A.

Directors of Studies.—

Arts.—MARJORIE A. BROWN, M.A.

ERROL BEDFORD, B.A.

A. H. COXON, M.A.

J. KYLES, M.A.

A. NISBET, M.A., F.R.S.E.

D. NOBBS, M.A.

I. I. HIRD, B.Com.

INNIS SMITH, M.A.

A. J. STEELE, M.A.

WINIFRED A. MAYNARD, B.A., B.Litt.

N. A. FURNESS, B.A., Dr.Phil.

G. A. SHEPPERSON, M.A.

Divinity.—Rev. Professor J. H. S. BURLEIGH, M.A., B.D., B.Litt., D.D.

Law.—Professor A. M. CAMPBELL, B.C.L., M.A., LL.M. **Administrative Law.**—M. R. MCLARTY, M.A.

Medicine.—

Medical Studies.—Professor J. H. F. BROTHERSTON, M.A., M.D., D.P.H., Dr.P.H., F.R.C.P.E., F.R.S.E.

Dental Studies.—Professor J. BOYES, F.R.C.S.E., F.D.S.R.C.S., F.D.S.R.C.S.E.

Veterinary Studies.—Professor A. ROBERTSON, M.A., B.Sc., Ph.D., M.R.C.V.S., F.R.I.C., F.R.S.E.

Music.—Professor S. T. M. NEWMAN, M.A., D.Mus., F.R.C.O., F.T.C.L.

Science.—T. R. BOLAM, M.Sc., D.Sc.

R. M. SILLITTO, B.Sc., F.Inst.P.

G. F. FRIEND, M.A., B.Sc., F.R.S.E.

J. E. GORDON, O.B.E., B.Sc. (Agr.), B.Sc. (For.), Ph.D.

A. NISBET, M.A., F.R.S.E.

C. PATTERSON, M.I.Mech.E., M.I.Mar.E.

University Representatives or Nominees on Public Bodies

Directors of Studies.—Science.—(continued).

C. J. TAYLOR, M.B.E., F.D., B.Sc., Ph.D.
D. M. WILSON, B.Sc., Ph.D., M.I.Chem.E.
P. McL. D. DUFF, B.Sc.
J. F. WILKINSON, M.A., Ph.D. (Assistant Director).

Other Officials

Appointments Secretary.—A. G. ACASTER, M.A.

Assistant Appointments Secretary.—Mrs CAROLINE BATT, M.A.

Assistant to the Dean of the Faculty of Medicine.—P. W. R. PETRIE, O.B.E., M.B., Ch.B., D.J.P.H., D.T.M. & H.

Bedellus.—E. H. G. ELDER.

Chief Clerk, Matriculation Office.—E. STABLES.

Clerk of Examinations.—A. CRUICKSHANK.

Director of the Department of Physical Education.—L. E. LIDDELL, B.A.

Director of Women's Physical Education.—Miss HETTY I. MUSTARD.

Editor of University Calendar.—P. MCINTYRE, M.A.

Master of Works.—J. HAMILTON.

Officers Training Corps Adjutant.—Captain W. J. STOCKTON.

Organist.—HERRICK BUNNEY, B.Mus., F.R.C.O., A.R.C.M.

Secretary of Post-Graduate School of Theology.—Rev. R. A. S. BARBOUR, M.C., M.A., B.D., S.T.M.

Senior Administrative Assistants.—FRED MANN, M.A., L.L.B.; J. H. MACDONALD, M.A.

Senior Administrative Officers :

Faculty of Arts—J. M. MACFARLANE, M.A., B.Litt.

Faculty of Medicine.—D. H. WOOD, M.A.

Faculty of Science—M. ROBSON, B.Sc.

Students' Health Service.—Senior Physician—R. E. VERNEY, M.B., Ch.B., D.R., F.R.C.P.E.

Assistant Physicians—J. B. BROWN, M.B., Ch.B.; I. H. STOKOE, M.D., M.R.C.P., M.R.C.P.E.
EDITH THOMSON, M.B., Ch.M.; MARJORY KEITH, M.A., B.Ed., M.D., F.R.C.P.E.

Dental Surgeons—J. B. BURNETT, L.D.S., R.F.P.S.; H. P. SAGER, L.D.S.

Superintendent of Student Accommodation and Welfare.—DIANA C. MATCHETT ; Assistants, Miss HORSFALL and Miss F. M. RUSSELL.

Technician Training Officer.—R. NELSON, A.H.-W.C.

University Chaplain.—Rev. J. C. BLACKIE, M.A., B.D., S.T.M.

University Press.—SECRETARY—A. R. TURNBULL, M.A.

Warden of University Settlement.—B. J. ASHLEY, B.Sc.(Econ.).

University Representatives or Nominees on Public Bodies

Representing or nominated by the University Court

Association of Universities of the British Commonwealth.—The Principal.

British Council Scottish Advisory Panel.—Dr A. F. GILES.

British Institute of Archaeology at Ankara.—Professor Emeritus Sir WILLIAM CALDER.

British Institute of Recorded Sound.—Mr D. ABERCROMBIE.

British School of Archaeology in Iraq.—Professor STUART PIGGOTT.

British Society for the Promotion of Vegetable Research.—Dr A. NELSON.

Carnegie Trust for the Universities of Scotland.—The Principal.

Central Midwives Board for Scotland.—Professor R. A. LENNIE (Glasgow).

Churches and Universities (Scotland) Widows and Orphans Fund.—Professor G. A. MONTGOMERY ; Professor Emeritus H. H. MONTEATH ; Professor A. A. MATHIESON (University of St Andrews) ; Professor E. M. WRIGHT (University of Aberdeen) ; Professor J. M. HALLIDAY (University of Glasgow).

Colonial Office Departmental Committee on Recruitment for Colonial Medical Service.—Professor Emeritus Sir SYDNEY SMITH.

Dental Education Advisory Council.—Professor J. BOYES.

Edinburgh and East of Scotland College of Agriculture.—Professor HIRST and Professor ARNOLD.

Edinburgh Association for the Provision of Halls of Residence for Women Students.—Professor D. TALBOT RICE ; Mr W. K. SMITH ; Professor HAY.

Edinburgh Centre of Rural Economy.—Professor J. S. WATSON ; Dr T. J. CARLYLE GIFFORD ; Professor A. ROBERTSON ; Professor M. L. ANDERSON.

University Officials and Staff

Edinburgh International House.—Professor JAMES DREVER.
Edinburgh Post-Graduate Board for Medicine.—Professor R. J. KELLAR; Mr A. LOGAN; Professor R. W. B. ELLIS.
Edinburgh Workers' Educational Association.—Dr MARY COLLINS and Mr J. HOSSACK.
Education Committee of the Town Council.—Professor D. B. HORN.
Federated Superannuation System for Universities.—Mr R. O. CURLE.
Fettes Trust.—Professor N. FEATHER.
General Dental Council.—Professor BOYES.
General Medical Council.—Professor J. H. F. BROTHERSTON.
Heriot-Watt College.—Dr EDGAR STEDMAN; Professor N. FEATHER; Professor E. L. HIRST.
Highlands and Islands Educational Trust.—Professor K. H. JACKSON.
Imperial Cancer Research Fund.—Professor A. ROBERTSON.
Imperial College of Tropical Agriculture.—Mr J. P. MAULE.
Joint University Council for Social and Public Administration.—Mr M. R. McLARTY; Miss M. A. BROWN; Mrs M. M. TAIT.
King's Buildings Common Room Committee.—Sir J. DONALD POLLOCK; Dr B. M. JONES.
Melville Trust Scheme for the Care and Cure of Cancer.—Professor JOHN BRUCE.
Melville Trust Scientific Advisory Committee.—Professor G. F. MARRIAN and Professor N. FEATHER.
Merchiston Castle School.—Professor A. H. CAMPBELL.
Meteorological Office (Edinburgh) Advisory Committee.—The Principal.
Newbattle Abbey College.—Professor A. D. RITCHIE; Sir J. DONALD POLLOCK; Mr J. HOSSACK.
Northern Regional Hospital Board.—Professor J. W. CROFTON.
Royal Anthropological Institute.—Professor STUART PIGGOTT.
Royal College of Veterinary Surgeons.—Professor A. ROBERTSON; Professor G. F. BODDIE.
Royal Sanitary Association Board of Examiners for Health Visitors Certificates.—Dr JOHN THOMSON.
Royal Victoria Hospital Tuberculosis Trust.—Professor J. W. CROFTON; Dr N. W. HORNE.
Scottish Council of Social Service.—Miss MARJORIE A. BROWN.
Scottish Field School of Archaeology.—Mr MICHAEL R. E. GOUGH.
Scottish Health Services Council.—Professor A. KENNEDY and Professor R. CRUICKSHANK.
Scottish Marine Biological Association.—Professor M. M. SWANN.
Scottish Technical Education Consultative Committee.—Professor JACK ALLAN (Aberdeen).
Scottish Universities' Entrance Board.—Professor J. D. B. MITCHELL; Dr A. F. GILES; Professor N. FEATHER; Professor D. B. HORN.
South-Eastern Regional Hospital Board.—Dr C. P. STEWART; Professor G. H. PERCIVAL; Dr J. J. R. DUTHIE; Professor G. J. ROMANES; Professor N. HUNT.
Universities Film Council.—Dr J. A. WATT.
Universities Council for Adult Education.— * * *
University of Nottingham.—Professor D. TALBOT RICE.
University Settlement Association Council.—Dr MARY J. F. GREGOR; Mr J. HOSSACK.
University Union Committee of Management.—Professor R. J. KELLAR.
University Women's Union Finance Committee.—Mr W. V. STEVENS.

Representing or nominated by the Senatus Academicus

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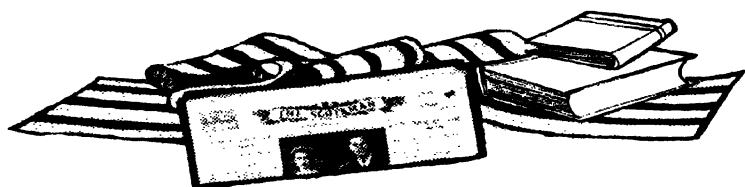
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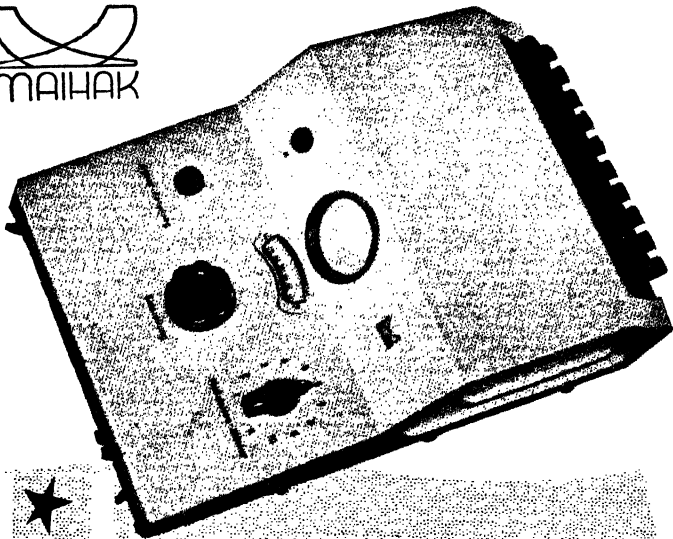
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